# Exhibit 8

### IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF NEW JERSEY

IN RE: JOHNSON & JOHNSON TALCUM POWDER PRODUCTS MARKETING, SALES PRACTICES AND PRODUCTS LIABILITY LITIGATION

THIS DOCUMENT RELATES TO ALL CASES

MDL NO. 16-2738 (FLW) (LHG)

# EXPERT REPORT OF GREGORY DIETTE, MD, MHS FOR GENERAL CAUSATION DAUBERT HEARING

Date: February 25, 2019

Gregory Diette, M.D., M.H.S.

#### I. SCOPE OF REPORT

I was retained by Johnson & Johnson & Johnson & Johnson Consumer Inc. to review the epidemiological literature regarding the hypothesized connection between talc or asbestos in talc and the development of ovarian cancer.

#### II. MY QUALIFICATIONS

I am a professor of medicine at the Johns Hopkins University School of Medicine. I hold joint appointments in the Departments of Environmental Health Sciences and Epidemiology in the Johns Hopkins Bloomberg School of Public Health.

I received my M.D. from the Temple University School of Medicine. I completed my residency at the Hospital of the University of Pennsylvania and performed a fellowship in pulmonary and critical care medicine at Johns Hopkins. I received my M.H.S. in Epidemiology and Clinical Epidemiology from the Johns Hopkins Bloomberg School of Public Health. Currently, I am an attending Physician at the Johns Hopkins Hospital and the Johns Hopkins Bayview Medical Center, practicing both inpatient and outpatient care.

My areas of clinical expertise include internal medicine, pulmonary medicine and critical care medicine. My areas of research include environmental impacts on lung disease and epidemiology of chronic diseases. I have published more than 200 studies in peer-reviewed journals on a variety of medical and scientific subjects, including the epidemiological study of disease causation, disease risk factors and gene expression, as well as the health effects of environmental pollutants. In addition, I am a peer reviewer for a number of journals. I have also repeatedly lectured and instructed on advanced research methods in epidemiology.

I currently hold multiple positions related to teaching and clinical research. I am an attending physician at Johns Hopkins and a member of the American Thoracic Society, where I served on the Board of Directors and have participated in a number of its teaching programs, including the Methods in Epidemiologic, Clinical and Operations Research program. I also previously served as the Director of Clinical Research in the Division of Pulmonary and Critical Care Medicine for almost 14 years.

Additional information pertaining to my background and qualifications can be ascertained from my curriculum vitae, which is attached to this report, together with other required disclosures. I am being compensated at a rate of \$485 per hour for my work on this case and \$600 per hour for testimony.

#### III. SUMMARY OF OPINIONS

The body of relevant epidemiological evidence does not support a causal connection between perineal use of talcum powder products (whatever constituents those products may contain in addition to talc) and ovarian cancer. As fully set forth below:

- The epidemiological literature shows a non-existent association or, at most, a small
  association between perineal talc use and ovarian cancer that constitutes only weak
  epidemiological evidence. Because any purported association demonstrated in the
  literature is weak, it may well be attributed to factors such as confounding, bias or
  chance.
- 2. Studies have not consistently shown an association. The prospective epidemiological studies (cohort studies) do not show a statistically significant association; the hospital-based case-control studies do not show a statistically significant association; and only a subset of the population-based case-control studies show a statistically significant association. If consistency could be drawn from these inconsistent results, it would be a consistency of null results because case-control studies, which are more easily subject to certain biases and confounding factors, are not the best evidence for proving causation.
- 3. Evidence of a dose-response relationship is lacking. None of the cohort studies reveals a dose-response relationship, and only a handful of case-control studies, including those analyzing "cumulative" talc use, have purported to find one. Moreover, study authors and plaintiffs' experts all agree that there are major challenges to interpreting the study findings on dose-response because there can be no assurance that any estimates of talc use are accurate or valid. Indeed, there is not a single epidemiologic study of ovarian cancer and talcum powder that has used, or purports to have used, a validated measure of talcum powder use. Without a validated measure of talcum powder use, it is impossible to correctly determine whether or not an exposure occurred or the quantity of purported exposure, casting considerable doubt on any purported causative relationship between perineal talcum powder use and ovarian cancer.
- 4. The theories as to how talc or asbestos would reach the ovaries have not been validated, and the scientific community has repeatedly expressed the opinion that the potential mechanism by which talcum powder is associated with ovarian cancer remains speculative.
- 5. Additional Bradford Hill factors temporality, coherence of the association and analogy are not satisfied based on the available epidemiologic evidence and do not support the allegation that talcum powder use can cause ovarian cancer.
- 6. To the extent plaintiffs' experts opine that asbestos is an accessory mineral present in cosmetic talc that causes ovarian cancer, this theory would not alter the analysis because the existing epidemiological literature regarding perineal talc use would necessarily account for the presence of any asbestos in the products used in those studies. Plaintiffs' experts' asbestos-based theories are also problematic due to the lack of a plausible mechanism by which asbestos could reach the ovaries and a lack of any reliable epidemiology supporting such a causal connection.

#### IV. APPROACH

#### A. Bradford Hill Framework

Epidemiologists and other scientists are often tasked with determining whether or not an exposure can cause an illness or condition. After an association has been demonstrated, criteria articulated by Austin Bradford Hill in a lecture in 1965 are often employed. These Bradford Hill considerations, or criteria, are considered the gold standard for assessing causation based on observed associations. The nine considerations are: consistency, strength of association, specificity, dose-response relationship, temporality, biologic plausibility, coherence of the association, analogy and experimentation. In applying these criteria, an epidemiologist should consider all available evidence, which can be assessed and graded according to its sufficiency (or lack thereof) to establish a causal link. Evidence typically comes from research studies that involve humans, but it can also include well-designed studies of animals or in vitro systems (toxicological and experimental) to provide supportive evidence, especially for plausibility.

Another useful factor for assessing causation includes consideration of non-causal explanations for the results of individual studies.<sup>2</sup> As explained further below, these other explanations can come from bias, confounding and chance. For example, drinking coffee might be correlated with a higher risk of lung cancer, but the cause of the additional cases of lung cancer among individuals who drink coffee would be smoking cigarettes. In this example, the obvious confounding factor is that individuals who drink coffee are more likely to smoke. But confounding factors are not always identifiable, even after extended study, and these and other factors can consistently drive statistical associations that are not causal in nature. Such limitations can be quite important, as they can lead to risk estimates that are falsely higher or lower than actual risk, and they can even lead to conclusions that an exposure causes a disease when it does not, and vice versa.

#### B. Methodology

I was asked to assess whether perineal exposure to talcum powder causes ovarian cancer. Based on my extensive qualifications and experience, review of the available studies and data and assessment of the Bradford Hill factors, I conclude that the observations and evidence to date are insufficient to find a causal relationship between perineal exposure to talcum powder and ovarian cancer.

My opinions are based on a review of the epidemiology literature relevant to the evaluation of the association between perineal talcum powder use and ovarian cancer. In my review, I considered case-control studies, prospective cohort studies and meta-analyses. I did not consider randomized trial data, since I am not aware of any such data reporting on the presence

Hill AB. The Environment and Disease: Association or Causation? Proc R Soc Med. 1965; 58(5):295-300 ("Hill 1965").

Elwood JM. Causal Relationships in Medicine: A Practical System for Critical Appraisal. Oxford: 1988, 163-182.

or absence of an association between of talcum powder and ovarian cancer. Because the accuracy of the findings of case-control and cohort studies can be influenced by bias and confounders, I carefully considered whether there was any indication that these sorts of errors affected the results.

In evaluating the epidemiologic data and other scientific evidence under the Bradford Hill framework, I primarily focus on whether the criteria of strength of association, consistency of the association, biologic gradient (or dose response) and biologic plausibility have been met. Although it is not essential to address every factor under the Bradford Hill framework, as plaintiffs' experts acknowledge, I also address specificity, temporality, coherence of the association, experiment and analogy.

Lastly, I reviewed several of the reports submitted by plaintiffs' experts and their depositions. A number of these experts claim to have analyzed the Bradford Hill criteria and to have concluded through these analyses that perineal talc use causes ovarian cancer. I assess and address several of plaintiffs' experts' methods and analyses in this regard.

#### V. STUDY DESIGNS

Epidemiologists recognize that there is a hierarchy of evidence with respect to human studies. Clinical trials are often considered the strongest type of evidence, followed by observational studies (cohort and case-control). The lowest quality of evidence comes from case reports, case series and descriptive studies.<sup>4</sup>

There are two main types of epidemiological studies at issue here: prospective cohort studies and case-control studies.

Prospective cohort studies consist of identifying a large group of healthy individuals who differ in the key areas being observed and following them forward in time. Based on the data collected, it is determined how the factors of interest, e.g., exposure to talcum powder, are associated with a certain outcome or disease. Cohort studies are widely regarded as more reliable than retrospective case-control studies because they are not susceptible to recall bias, which is the propensity of study subjects with the disease that is being studied to inaccurately report their exposure to the agent at issue, a phenomenon that can generate inflated risk estimates. Cohort studies generally avoid this pitfall because they are prospective rather than retrospective. Due to the ability of cohort studies to assess exposure at baseline instead of relying solely on recall, they can be better suited to detect risks from exposure to an agent.

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Smith-Bindman Rep. at 36; Singh Rep. at 62.

<sup>&</sup>lt;sup>4</sup> Elwood at 174-175.

Gertig DM, Hunter DJ, Cramer DW, et al. Prospective Study of Talc Use and Ovarian Cancer. J Natl Cancer Inst. 2000; 92(3): 249-252, 252 ("Gertig 2000"); Langseth H, Hankinson SE, Siemiatycki J, Weiderpass E. Perineal Use of Talc and Risk of Ovarian Cancer. J Epidemiol Community Health. 2008; 62(4):358-360, 358 ("Langseth 2008"). *See generally* Leon Gordis. Epidemiology. 5th ed. Philadelphia, PA: 2014.

Although there are also retrospective cohort studies, those are not at issue here, because the cohort studies involving cosmetic talc use are prospective in design.

In case-control studies, individuals with the disease of interest (cases) and those without the disease of interest (controls) are first identified. These two groups are then compared to assess any differences between them regarding a specified exposure. Case-control studies can be further broken down into population-based and hospital-based studies. Hospital-based studies draw their control population from patients who are hospitalized with conditions other than the one under study. Population-based studies draw study participants from the general population.

#### VI. REVIEW OF EPIDEMIOLOGY DATA

In forming my opinions, I employed search tools, including Medline and Google Scholar, to identify studies that examined the association of perineal talcum powder use and ovarian cancer. I also reviewed the reference lists of individual studies and the meta-analyses to assemble a complete list of studies. Specifically, I first located and reviewed the relevant cohort studies, meta-analyses and case-control epidemiologic studies. I then reviewed how other medical experts or other professional organizations interpreted those studies. My reliance list, which is attached to this report, is comprised of all studies located and assessed specifically for this case. In total, I identified and reviewed 32 case-control studies and three prospective cohort studies published since 1982 that pertain to perineal talc use and ovarian cancer.

It is my understanding that plaintiffs are asserting in this litigation that talc products contain asbestos. The epidemiological literature concerning talc products and ovarian cancer generally has not attempted to investigate the question whether asbestos is present in talc as an accessory mineral. Nevertheless, if talc products have generally contained asbestos, the epidemiological literature would reflect the risks of asbestos in talc.

#### A. Strength Of Association Is Weak.

The first Bradford Hill criterion, strength of the association, refers to the magnitude of the risk of developing a given outcome in the presence of a measured risk factor. In the studies discussed in this report, risk is reported in various ways – as a relative risk ("RR"), odds ratio ("OR"), or hazard ratio ("HR") – typically with a confidence internal ("CI"). A relative risk "of an event is the likelihood of its occurrence after exposure to a risk variable" – here, talcum powder or asbestos – "as compared with the likelihood of its occurrence in a control or reference group." An odds ratio is "a comparison of the odds of an event after exposure to a risk factor with the odds of that event in a control or reference situation." A hazard ratio is a type of relative risk that measures "how often a particular event happens in one group compared to how often it happens in another group, over time." In each case, the risk is expressed as a number for which 1 is the denominator, so that a relative risk of 1.3, for example, would mean that the outcome of interest occurred 1.3 times as often in the exposed group as compared to the control

Andrade C. Understanding Relative Risk, Odds Ratio, and Related Terms. J Clin Psychiatry. 2015; 76(7):e857-861.

<sup>8</sup> *Id.* 

<sup>&</sup>lt;sup>9</sup> National Cancer Inst., NCI Dictionary of Cancer Terms, "hazard ratio," https://www.cancer.gov/publications/dictionaries/cancer-terms/def/hazard-ratio.

group – a 30% greater incidence. A relative risk of 1.0, by contrast, would mean there was no difference. In each case, a confidence interval can be calculated to determine statistical significance – in essence, whether the difference between the exposed and unexposed groups is likely to persist if the same study were repeated. When a confidence interval contains 1.0, the result is deemed not to be statistically significant because the possibility that there is no real association is within the expected range of results. It is typical to calculate a 95% confidence interval, expressed in this report as "95% CI," meaning that if the study were repeated, the results would be expected to fall within the confidence interval 95% of the time.

While there is no absolute cutoff to define a large versus a small relative risk, Hill provided examples of large risks, including the 200 times risk of scrotal cancer in chimney sweeps, an estimate of 9-10 times risk of lung cancer in smokers and 20-30 times risk of lung cancer in heavy smokers. As an example of a low risk, Dr. Hill used death from coronary thrombosis in smokers, which he described as "no more than twice, probably less" than the death rate in non-smokers. Dr. Hill further explained:

"[T]hough there is good evidence to support causation it is surely much easier in this case to think of some features of life that may go hand in hand with smoking—features that might conceivably be the real underlying cause or, at the least, an important contributor, whether it be lack of exercise, nature of diet or other factors. But to explain the pronounced excess in cancer of the lung in any other environmental terms requires some feature of life so intimately linked with cigarette smoking and with the amount of smoking that such a feature should be easily detectable."

What this passage from Hill means is that low observed risks are more likely to be non-causal than are high risks, because the effects of distorting factors (such as confounders and bias) have a greater chance of being the true explanation for the observations. Because very small risks are obviously highly susceptible to distorting effects in observational studies, further evidence is required to demonstrate that the purported association did not arise from bias, confounding or chance alone. Plaintiffs' experts express opinions about risks articulated as approximately a 1.2-1.3 odds ratio. This is considered a weak association by the scientific community, as some of plaintiffs' experts acknowledge. To the extent other plaintiffs' experts dispute this point (most notably Dr. Moorman, who attempted to argue that straightforward adjectives like "weak," "modest" or "strong" do not have "clear definitions"), their position is simply not credible, and even Dr. Moorman acknowledges that 1.2-1.3 is "weaker" than well-established large associations such as smoking/lung cancer. While the size of the risk does not, in itself, determine causation, this purported low risk estimate is not strong evidence of

<sup>&</sup>lt;sup>10</sup> Hill 1965.

Moorman Rep. at 17.

Singh Dep. 140:19-25 (agreeing that scientific literature does not consider 1.3 a strong association).

Moorman Dep. 246:24-250:16; *id.* 287:14-289:3 (refusing to define a "weak association" but acknowledging that epidemiology textbooks would not agree that it cannot be defined); *see also id.* 145:4-17 (agreeing that the medical community accepts smoking as a cause of lung cancer but questioning the definition of "medical community" when asked the same about talc and ovarian cancer).

causation. As plaintiffs' expert, Dr. Siemiatycki, wrote in a 1988 article, "[s]mall excess relative risks, even if they are statistically significant, are often interpreted with great caution, if not skepticism." <sup>14</sup>

### 1. Results Of Cohort Studies, Case-Control Studies And Meta-Analyses And Pooled Studies

As fully set forth in the next sections, the prospective epidemiological studies (cohort studies) do not show a statistically significant association between genital talc use and ovarian cancer, while a subset of the population-based case-control studies do show weak statistically significant associations.

#### a. Results of Cohort Studies

The most recent cohort study, referred to by many as the "Sister Study," enrolled 50,884 women in the U.S. and Puerto Rico beginning in 2003, who had a sister diagnosed with breast cancer, and followed 41,654 of those women for a median 6.5 years. <sup>15</sup> The study identified 154 cases of ovarian cancer and found no association between the use of talc and ovarian cancer – in fact, there was an inverse association that was not statistically significant (HR 0.73 (95% CI: 0.44-1.2)). <sup>16</sup> Of note, this study separately found an association between douching and ovarian cancer, suggesting that douching (which sometimes accompanies perineal talc use) may be a confounding variable that has not sufficiently been accounted for in past studies. <sup>17</sup>

A prior cohort study known as the Women's Health Initiative Study followed 61,576 women for a mean of 12.4 years. <sup>18</sup> The study showed no increased risk of ovarian cancer from genital use of talc (HR 1.12 (95% CI: 0.92-1.36)), no increased risk of ovarian cancer from genital talc use for 10 or more years (HR 0.98 (95% CI: 0.75-1.29)) or 20 or more years (HR 1.10 (95% CI: 0.82-1.48)), and no increased risk of ovarian cancer with talc use on sanitary napkins (HR 0.95 (95% CI: 0.76-1.20)) or contraceptive diaphragms (HR 0.92 (95% CI: 0.68-1.23)). <sup>19</sup> The result for combined powder use was a statistically non-significant hazard ratio (HR 1.06 (95% CI: 0.87-1.28)) and an even lower statistically non-significant hazard ratio for combined use for more than ten years (HR 1.02 (95% CI: 0.80-1.30)). <sup>20</sup> The authors concluded

<sup>&</sup>lt;sup>14</sup> Siemiatycki Dep. 328:22-329:2.

Gonzalez NL, O'Brien KM, D'Aloisio AA, Sandler DP, Weinberg CR. Douching, Talc Use, and Risk of Ovarian Cancer. Epidemiology. 2016; 27(6): 797–802. ("Gonzalez 2016").

<sup>16</sup> Id. at 800-02.

<sup>17</sup> *Id.* at 800.

Houghton SC, Reeves KW, Hankinson SE, et al. Perineal Powder Use and Risk of Ovarian Cancer. J Natl Cancer Inst. 2014; 106(9): dju208. ("Houghton 2014").

<sup>&</sup>lt;sup>19</sup> *Id*.

<sup>&</sup>lt;sup>20</sup> *Id*.

that "perineal powder use does not appear to influence ovarian cancer risk." <sup>21</sup>

The results of an additional cohort study were published in 2000<sup>22</sup> and updated in another publication ten years later.<sup>23</sup> These reports looked at talc use within the Nurses' Health Study ("NHS"), which was a prospective cohort of 121,700 registered nurses in the United States and was established in 1976.<sup>24</sup> The Gertig analysis showed no statistically significant association between perineal talc use (RR 1.09 (95% CI: 0.86-1.37)), use of talc on sanitary napkins (RR 0.89 (95% CI: 0.61-1.28)) and for both uses combined (RR 0.90 (95% CI: 0.59-1.37)).<sup>25</sup> It further showed no statistically significant association for various different frequencies of use and no indication that risk increased with more frequent use: less than one per week (RR 1.14 (95% CI: 0.81-1.59)); 1-6 uses per week (RR 0.99 (95% CI: 0.67-1.46)); daily use (RR 1.12 (95% CI: 0.82-1.55)).<sup>26</sup> When examining the results by histology, the authors observed a weak statistically significant association for serous invasive (RR 1.40 (95% CI: 1.02-1.91)) but no other types of ovarian cancer.<sup>27</sup> They noted that perineal talc use "may modestly increase the risk of invasive serous ovarian cancers" but not for "all serous cancers (including borderline cancers), endometrioid cancers, or mucinous cancers," and concluded overall that their "results provide little support for any substantial association between perineal talc use and ovarian cancer risk."<sup>28</sup>

The 2010 Gates report, which followed up on the Nurses' Health cohort ten years later, found no statistically significant elevations in risk for talc use for all epithelial ovarian cancers (RR 1.06 (95% CI: 0.89-1.28)), serous invasive ovarian cancers (RR 1.06 (95% CI: 0.84-1.35)), endometrioid ovarian cancers (RR 1.06 (95% CI: 0.66-1.69)), or mucinous ovarian cancers (RR 1.50 (95% CI: 0.84-2.66)). The authors concluded that their results for talc exposure "generally are consistent with the existing literature," i.e., consistent with generally null and/or weakly associated results. It is notable too, that with further passage of time, there was no longer an increased association for the serous invasive type of ovarian cancer.

Plaintiffs' experts' argument that the Gates report should be disregarded because the participants in the Nurses' Health Study were only asked about talcum powder use once is

<sup>&</sup>lt;sup>21</sup> *Id*.

<sup>&</sup>lt;sup>22</sup> Gertig 2000.

Gates MA, Rosner BA, Hecht JL, Tworoger SS. Risk Factors for Epithelial Ovarian Cancer by Histologic Subtype. Am J Epidemiol. 2010; 171(1):45-53, 50 ("Gates 2010").

<sup>&</sup>lt;sup>24</sup> Gertig 2000.

<sup>25</sup> *Id.* at 251.

<sup>&</sup>lt;sup>26</sup> *Id*.

<sup>&</sup>lt;sup>27</sup> *Id*.

<sup>&</sup>lt;sup>28</sup> *Id.* at 250-51.

<sup>&</sup>lt;sup>29</sup> Gates 2010 at 50.

Id. at 51. While the 2010 NHS updated the number of women studied, the new participants were not asked about talc, which the authors acknowledged was a "weakness[]" in the study. Id. at 52.

unfounded.<sup>31</sup> Ten additional years of follow-up is valuable data regardless of whether further questioning regarding talc use took place. Moreover, as other studies and plaintiffs' experts themselves have admitted, for women who are ever-users of perineal talcum powder, the mean duration of use is greater than 20 years<sup>32</sup> and the vast majority of women who use talcum powder initiate use before age 36.<sup>33</sup> That means that, even though the participants were only asked about their talcum powder use once, the data collected on perineal talcum powder application would have likely reflected chronic, habitual use. For similar reasons, recent meta-analyses by Penninkilampi (relied on heavily by plaintiffs' experts)<sup>34</sup> and Taher<sup>35</sup> (discussed further below) are of questionable value in light of their omission of the findings reported by Gates, which are derived from a cohort study that found no statistically significant elevations in risk for talc users with respect to epithelial ovarian cancers, serous invasive ovarian cancers, endometrioid ovarian cancers or mucinous ovarian cancers.

Dr. McTiernan's argument that cohort studies are limited because they were "designed to study a large number of outcomes and a wide variety of exposures" in addition to talc and ovarian cancer<sup>36</sup> is also wrong. The fact that cohort studies are able to study many variables and outcomes is an illustration of what is valuable and can be achieved with cohort studies. I know of no epidemiologists who believe that the results of all cohort studies should be discounted due to this common design trait; indeed, such a view would conflict with the generally accepted principle that cohort studies can produce a higher level of evidence than case-control studies. Moreover, the typical concern when studies include multiple variables is that they might report false positive associations for particular variables, and no plaintiffs' expert argues that the talc results in cohort studies are false positives (although that argument could be applied to the single positive finding from the Gertig study). Dr. McTiernan relatedly argues that the cohort studies were not "able to accurately measure dose of exposure," but this is equally true of case-control studies, as discussed herein.<sup>37</sup>

Singh Dep. 164:16-23; Moorman Dep. 190:4-24; McTiernan Dep. 224:3-7; Smith-Bindman Rep. at 20.

Wu AH, Pearce CL, Tseng CC, Pike MC. African Americans and Hispanics Remain at Lower Risk of Ovarian Cancer Than Non-Hispanic Whites after Considering Nongenetic Risk Factors and Oophorectomy Rates. Cancer Epidemiol Biomarkers Prev. 2015; 24(7):1094-100 ("Wu 2015").

Singh Dep. 165:2-8; Gates MA, Tworoger SS, Terry KL, et al. Talc use, variants of the GSTM1, GSTT1, and NAT2 genes, and risk of epithelial ovarian cancer. Cancer Epidemiol Biomarkers Prev. 2008; 17(9):2436-2444 ("Gates 2008").

Penninkilampi R, Eslick GD. Perineal Talc Use and Ovarian Cancer: A Systematic Review and Meta-Analysis. Epidemiology. 2018; 29(1):41-49, 44 ("Penninkilampi 2018"); Smith-Bindman Rep. at 27 ("Penninkilampi provides a comprehensive and high quality review"); McTiernan Rep. at 49 ("[T]he results of this 2018 meta-analysis give strong support for an association between perineal talcum powder product use and risk for ovarian cancer.").

Taher MK, Farhat N, Karyakina NA, et al. Systematic Review and Meta-Analysis of the Association Between Perineal Use of Talc and Risk of Ovarian Cancer (2018) (unpublished manuscript) ("Taher 2018").

McTiernan Rep. at 46.

<sup>&</sup>lt;sup>37</sup> *Id*.

Plaintiffs' experts also criticize cohort studies for having short follow-up and therefore supposedly not considering the latency period for ovarian cancer. In light of the data noted above about mean initiation and duration of talc use, it is reasonable to assume that the date on which study participants were asked about their talcum powder use was not the date of first use and thus not the date that a true latency period would have begun. Moreover, the Women's Health Initiative Study asked about talcum powder use for 20-plus years and found no statistically significant increased risk in ovarian cancer after following those women for 12.4 years (meaning at least 32.4 years of latency were factored in), and the Sister Study enrolled women between the ages of 35-74 and followed up after 6 years. Therefore, it is clear in the case of the WHI study, and quite likely in the case of the Sister Study, that substantial numbers of cohort study participants were using talcum powder for decades, long enough to put any serious concerns about latency to rest.

Any criticism of the studies that rests on the idea of a latency period is highly speculative anyway. For the reasons set out in this report, science has not even established a causal relationship between talc and ovarian cancer of any sort; far less has it established a latency effect or the duration of any such effect. There is simply no scientific basis for the suggestion of a number of plaintiffs' experts that it takes 20 years for some unspecified degree of perineal talc exposure to cause ovarian cancer.

Finally, plaintiffs' experts' criticisms of cohort studies are collectively suspect because they are so extensive when compared to their relatively muted criticisms for case-control studies, which, as I detail in the next sections, have their own significant weaknesses. For example, Dr. Smith-Bindman devotes several pages of her report to lodging numerous criticisms of each study that reported on cohort data; although she mostly spares Gertig 2000 (which happens to be the one cohort study she believes supports her theory), she declares in summary fashion that there is nothing "meaningful" to be gleaned from any of the other cohort studies. Yet she provides no similar analysis of the strengths and weaknesses of the case-control studies, noting in the single paragraph in which she discusses them that her review and abstraction of data from them was done "[w]ithout assessing the[ir] quality." Similarly, Dr. Moorman did not offer any criticisms or cautions regarding the talc meta-analyses, whereas she pointed out limitations of cohort studies extensively in her report. None of the studies is perfect. But plaintiffs' experts' focused attack on cohort studies (as they seek to minimize the significant flaws of the case-control studies) reveals the biased and unscientific nature of their analyses.

Singh Rep. at 11, 53; McTiernan Rep. at 47.

<sup>&</sup>lt;sup>39</sup> Houghton 2014 at 2.

<sup>40</sup> Gonzalez 2016 at 2.

Smith-Bindman Rep. at 20-22.

<sup>42</sup> *Id.* at 29-30.

<sup>43</sup> Moorman Dep. 164:16-18; Moorman Rep. at 24-28.

In summary, none of the cohort studies found a statistically significant association between talc use and ovarian cancer.<sup>44</sup> The fact that these studies have shown uniformly null results indicates no association between talc use and ovarian cancer.

#### b. Results of Case-Control Studies

I have identified 25 population-based case-control studies addressing talc use and ovarian cancer.<sup>45</sup> The following table sets forth these studies' findings with respect to the association between ever/never talc use and ovarian cancer:

Berge W, Mundt K, Luu H, Boffetta P. Genital Use of Talc and Risk of Ovarian Cancer: A Meta-Analysis. Eur J Cancer Prev. 2018; 27(3):248-257, 251 ("Berge 2018") (assigning a statistically insignificant 1.02 relative risk to the cohort studies in aggregate).

Cramer DW, Welch WR, Scully RE, Wojciechowski CA. Ovarian cancer and talc: a case-control study. Cancer. 1982; 50(2):372-376; Harlow BL, Weiss NS. A case-control study of borderline ovarian tumors: the influence of perineal exposure to talc. Am J Epidemiol. 1989; 130(2):390-394; Harlow BL, Cramer DW, Bell DA, Welch WR. Perineal exposure to talc and ovarian cancer risk. Obstet Gynecol. 1992; 80(1):19-26 ("Harlow 1992"); Chen Y, Wu PC, Lang JH, et al. Risk factors for epithelial ovarian cancer in Beijing, China. Int J Epidemiol. 1992; 21(1):23-29; Cramer DW, Xu H. Epidemiologic evidence for uterine growth factors in the pathogenesis of ovarian cancer. Ann Epidemiol. 1995; 5(4):310-314; Purdie D, Green A, Bain C, et al. Reproductive and other factors and risk of epithelial ovarian cancer: an Australian case-control study. Survey of Women's Health Study Group. Int J Cancer. 1995; 62(6):678-684; Chang S, Risch HA. Perineal Talc Exposure and Risk of Ovarian Carcinoma. Cancer. 1997; 79(12):2396-2401 ("Chang & Risch 1997"); Cook LS, Kamb ML, Weiss NS. Perineal Powder Exposure and the Risk of Ovarian Cancer Am J Epidemiol. 1997: 145(5):459-465 ("Cook 1997"); Green A, Purdie D, Bain C, et al. Tubal sterilisation, hysterectomy and decreased risk of ovarian cancer. Survey of Women's Health Study Group. Int J Cancer. 1997; 71(6):948-951; Godard B, Foulkes WD, Provencher D, et al. Risk factors for familial and sporadic ovarian cancer among French Canadians: a case-control study. Am J Obstet Gynecol. 1998; 179(2):403-410; Cramer DW, Liberman RF, Titus-Ernstoff L, et al. Genital Talc Exposure and Risk of Ovarian Cancer. Int J Cancer. 1999; 81(3):351-356 ("Cramer 1999"); Ness RB, Grisso JA, Cottreau C, et al. Factors related to inflammation of the ovarian epithelium and risk of ovarian cancer. Epidemiology. 2000; 11(2):111-117; Mills PK, Riordan DG, Cress RD, Young HA. Perineal talc exposure and epithelial ovarian cancer risk in the Central Valley of California. Int J Cancer. 2004; 112(3):458-464 ("Mills 2004"); Cramer DW, Titus-Ernstoff L, McKolanis JR, et al. Conditions associated with antibodies against the tumor-associated antigen MUC1 and their relationship to risk for ovarian cancer. Cancer Epidemiol Biomarkers Prev. 2005; 14(5):1125-1131; Jordan SJ, Green AC, Whiteman DC, Webb PM, Australian Ovarian Cancer Study Group, Risk factors for benign, borderline and invasive mucinous ovarian tumors: epidemiological evidence of a neoplastic continuum? Gynecol Oncol. 2007; 107(2):223-230; Gates 2008; Merritt MA, Green AC, Nagle CM, et al. Talcum powder, chronic pelvic inflammation and NSAIDs in relation to risk of epithelial ovarian cancer. Int J Cancer. 2008; 122(1):170-176 (2008) ("Merritt 2008"); Moorman PG, Palmieri RT, Akushevich L, et al. Ovarian cancer risk factors in African-American and white women. Am J Epidemiol. 2009; 170(5):598-606; Wu AH, Pearce CL, Tseng CC, et al. Markers of inflammation and risk of ovarian cancer in Los Angeles County. Int J Cancer. 2009; 124(6):1409-1415 ("Wu 2009"); Rosenblatt KA, Weiss NS, Cushing-Haugen KL. Genital powder exposure and the risk of epithelial ovarian cancer. Cancer Causes Control. 2011; 22(5):737-742 ("Rosenblatt 2011"); Kurta ML, Moysich KB, Weissfeld JL, et al. Use of fertility drugs and risk of ovarian cancer: results from a U.S.-based case-control study. Cancer Epidemiol Biomarkers Prev. 2012; 21(8):1282-1292; Kotsopoulos J, Terry KL, Poole EM, et al. Ovarian cancer risk factors by tumor dominance, a surrogate for cell of origin. Int J Cancer. 2013; 133(3):730-739; Wu 2015; Cramer DW, Vitonis AF, Terry KL, et al. The Association Between Talc Use and Ovarian Cancer: A Retrospective Case-Control Study in Two US States. Epidemiology. 2016; 27(3):334-346 ("Cramer 2016"); Schildkraut JM, Abbott SE, Alberg AJ, et al. Association between Body Powder Use and Ovarian Cancer: The African American Cancer Epidemiology Study (AACES). Cancer Epidemiol Biomarkers Prev. 2016; 25(10):1411-1417 (2016) ("Schildkraut 2016").

Author, Year	Ever/Never Results
Cramer 1982	RR 1.92 (95% CI: 1.27-2.89)
Harlow & Weiss 1989	RR 1.10 (95% CI: 0.70-2.10)
Harlow 1992	OR 1.50 (95% CI: 1.00-2.10)
Chen 1992	RR 3.90 (95% CI: 0.90-10.6)
Cramer & Xu 1995	OR 1.10 (95% CI: 0.60-2.10)
Purdie 1995	OR 1.27 (95% CI: 1.04-1.54)
Chang & Risch 1997	OR 1.42 (95% CI: 1.08-1.86)
Cook 1997	RR 1.60 (95% CI: 0.90-2.80)
Green 1997	RR 1.30 (95% CI: 1.10-1.60)
Godard 1998	RR 2.49 (95% CI: 0.94-6.58)
Cramer 1999	OR 1.45 (95% CI: 0.97-2.18)
Ness 2000	OR 1.50 (95% CI: 1.10-2.00)
Mills 2004	OR 1.37 (95% CI: 1.02-1.85)
Cramer 2005	OR 1.16 (95% CI: 0.90-1.49)
Jordan 2007	OR 1.00 (95% CI: 0.40-2.10)
Gates 2008	RR 1.36 (95% CI: 1.14-1.63)
Merritt 2008	OR 1.17 (95% CI: 1.01-1.36)
Moorman 2009	Afr. Am.: OR 1.19 (95% CI: 0.68-2.09)
	Caucasian: OR 1.04 (95% CI: 0.82-1.33)
Wu 2009	RR 1.53 (95% CI: 1.13-2.09)
Rosenblatt 2011	OR 1.27 (95% CI: 0.97-1.66)
Kurta 2012	OR 1.40 (95% CI: 1.16-1.69)
Kotsopoulos 2013 <sup>46</sup>	RR 1.19 (95% CI: 0.73-1.96)
Wu 2015	OR 1.46 (95% CI: 1.27-1.69)
Cramer 2016	OR 1.33 (95% CI: 1.16-1.52)
Schildkraut 2016	OR 1.44 (95% CI: 1.11-1.86)

I have identified seven hospital-based case-control studies addressing the association between talc use and ovarian cancer. <sup>47</sup> As set forth in the following table, none of these studies observed a statistically significant association:

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Study looked at all types of genital powder used at least once per week.

Hartge P, Hoover R, Lesher LP, McGowan L. Talc and Ovarian Cancer. JAMA. 1983; 250(14):1844 ("Hartge 1983"); Whittemore AS, Wu ML, Paffenbarger RS Jr, et al. Personal and environmental characteristics related to epithelial ovarian cancer. II. Exposures to talcum powder, tobacco, alcohol, and coffee. Am J Epidemiol. 1988; 128(6):1228-1240 ("Whittemore 1988"); Booth M, Beral V, Smith P. Risk factors for ovarian cancer: a case-control study. Br J Cancer. 1989; 60(4):592-598 ("Booth 1989"); Rosenblatt KA, et al. Mineral fiber exposure and the development of ovarian cancer. Gynecol Oncol. 1992; 45(1):20-25. ("Rosenblatt 1992"); Tzonou A, Polychronopoulou A, Hsieh CC, et al. Hair dyes, analgesics, tranquilizers and perineal talc application as risk factors for ovarian cancer. Int J Cancer. 1993; 55(3):408-410 ("Tzonou 1993"); Hartge P, Stewart P. Occupation and ovarian cancer: a case-control study in the Washington, DC, metropolitan area, 1978-1981. J Occup Med. 1994; 36(8):924-927 ("Hartge & Stewart 1994"); Wong C, Hempling RE, Piver MS, et al. Perineal talc exposure and subsequent epithelial ovarian cancer: a case-control study. Obstet Gynecol. 1999; 93(3):372-376. ("Wong 1999").

Author, Year	Ever/Never Results
Hartge 1983	RR 0.70 (95% CI: 0.40-1.10)
Whittemore 1988	RR 1.45 (95% CI: 0.81-2.60)
Booth 1989	RR 1.30 (95% CI: 0.80-1.90)
Rosenblatt 1992	OR 1.70 (95% CI: 0.70-3.90)
Tzonou 1993	RR 1.05 (95% CI: 0.28-3.98)
Hartge & Stewart 1994	RR 0.3 (95% CI: 0.1-1.4) to
	RR 0.5 (95% CI: 0.2-1.5) <sup>48</sup>
Wong 1999	OR 1.00 (95% CI: 0.80-1.30)

In summary, 11 of the 25 population-based case-control studies do not show a statistically significant association, and none of the hospital-based studies does. Notably, the authors of the case-control studies have generally cautioned that even when they found a statistically significant elevated risk, their results do not establish causation, even in combination with the results of other studies.<sup>49</sup>

#### c. Results of Meta-analyses and Pooled Studies

Meta-analyses and pooled studies, which use statistical methods to pool results from different studies, have also been performed on the body of talc-ovarian cancer epidemiological literature. These studies have calculated an overall odds ratio of approximately 1.3, <sup>50</sup> which they have characterized as a "relatively weak odds ratio[]" that "can be attributed to bias in" case-control studies. <sup>51</sup> As some of these studies have stated, the epidemiological data are "<u>insufficient</u>

This study did not provide a value for ever/never use; range reflects values across three strata of use durations.

Cramer DW, Welch WR, Berkowitz RS, Godleski JJ, Presence of talc in pelvic lymph nodes of a woman with ovarian cancer and long-term genital exposure to cosmetic talc. Obstet Gynecol. 2007; 110(2 Pt 2):498-501, 500 (case study stating that "[w]e are not claiming that a causal relationship between ovarian cancer and talc use is proven for this case or in general").

Berge 2018 at 251 (RR 1.22 (95% CI: 1.13-1.30)); Terry KL, Karageorgi S, Shvetsov YB, et al. Genital Powder Use and Risk of Ovarian Cancer: A Pooled Analysis of 8,525 Cases and 9,859 Controls. Cancer Prev Res (Phila). 2013; 6(8):811-821 ("Terry 2013") (OR 1.24 (95% CI: 1.15-1.33)); Langseth 2008 (OR 1.40 (95% CI: 1.29-1.52)).

Berge 2018 at 253; Cramer DW, Liberman RF, Titus-Ernstoff L, et al. Genital Talc Exposure and Risk of Ovarian Cancer. Int J Cancer. 1999; 81(3):351-356, 354 ("Cramer 1999"); Huncharek M, Geschwind JF, Kupelnick B. Perineal application of cosmetic talc and risk of invasive epithelial ovarian cancer: a meta-analysis of 11,933 subjects from sixteen observational studies. Anticancer Res. 2003; 23(2C):1955-1960 (2003 meta-analysis explaining that "[s]election bias and uncontrolled confounding may account for the positive associations seen in prior epidemiological studies"); Rothman KJ, Pastides H, Samet J. Interpretation of Epidemiologic Studies on Talc and Ovarian Cancer 4 (Nov. 28, 2000), https://ntp.niehs.nih.gov/ntp/newhomeroc/roc12/mcewen-07-14-04.pdf ("Recall bias can readily introduce enough bias to produce the modestly-sized overall effect (RR = 1.3) that emerges from these studies."). I am aware of Dr. Zambelli-Weiner's criticisms of the Huncharek studies, but Dr. Zambelli-Weiner does not claim that the studies understated the association between genital talc use and ovarian cancer; indeed, her efforts to replicate the dose-response calculations in Huncharek (2003) similarly failed to show a dose-response relationship.

to establish a causal association between perineal use of talc and ovarian cancer risk" and "not support[ive of] a causal interpretation of the association." <sup>52</sup>

Plaintiffs' experts rely on a 2018 study by Penninkilampi and Eslick, which conducted a literature review of studies addressing talcum powder use and ovarian cancer and performed a meta-analysis that "revealed an increased risk of ovarian cancer associated with any perineal use of talc (... OR = 1.31; 95% CI = 1.24, 1.39)."<sup>53</sup> Although the finding was statistically significant, it remains low, with a 1.31 odds ratio that falls within the range of prior studies, adding little to the existing literature on this question. Indeed, the authors acknowledged that several meta-analyses had been conducted by 2018, but sought to justify the need for another in light of ongoing litigation, contending that "the association between talc use and ovarian cancer [has taken] on considerable relevance" because "Johnson & Johnson has recently had damages levied to the total of US\$717 million against [it] in five law suits" and because "producers of talcum powder products continue to sell these products without any warning labels regarding perineal use and potential associations with ovarian cancer," leading the authors to conclude that "there is a need for clarification, to allow women to be adequately informed of the risk of use of these products, possibly preventing future harm."54 This is an unusual statement in a scientific article and especially odd in an article that is ostensibly premised on the idea that existing science has not concretely defined the risk that the authors are suggesting should be warned against. The study is also puzzling in that its stated purpose is to update prior meta-analyses – in particular, because "the results of a number of large case-control studies and two cohort studies" had been reported since the last meta-analysis was published<sup>55</sup> – and yet the meta-analyses wholly excluded consideration of the Gates report (the NHS follow-up), another cohort study published during the same period. Ultimately, notwithstanding the authors' expressed concerns about warning women and updating the research, their conclusions echo those of prior studies, acknowledging in some detail the possibility that recall bias drove the results in the case-control studies<sup>56</sup> and concluding that while the authors believe their results are "suggestive of a causal association," it remains the case that "[a]dditional epidemiologic evidence from prospective studies with attention to effects within ovarian cancer subtype is warranted" and that "it is important that research into this association continue."57

I also note that plaintiffs' experts Dr. Smith-Bindman and Dr. Siemiatycki decided to conduct their own meta-analyses for purposes of their reports. I did not attempt such an undertaking because there is no need; there have been a number of recent meta-analyses in this area, and not enough new recent studies to justify running the same meta-analysis one more time

Langseth 2008 at 359; Berge 2018 at 256.

Penninkilampi 2018 at 44.

<sup>54</sup> *Id.* at 42.

<sup>&</sup>lt;sup>55</sup> *Id*.

<sup>&</sup>lt;sup>56</sup> *Id.* at 47.

<sup>57</sup> *Id.* at 48.

(indeed, Dr. Siemiatycki acknowledges that the cumulative 1.28 relative risk his analysis generated is on par with those of the recent published meta-analyses). 58

Dr. Smith-Bindman purports to have conducted her meta-analysis in an effort to specifically assess whether "regular" talc use causes ovarian cancer and serous invasive ovarian cancer in particular. According to Dr. Smith-Bindman, a "narrow[er]" meta-analysis would offer the "most meaningful and consistent results," ostensibly by reducing variation between the included studies as to "relevant factors such as age or race/ethnicity." But she does not cite any reference in support of her "less is more" theory; nor does she identify any generally accepted criticisms of existing talc meta-analytic work that would justify her narrower approach. She also offers no basis for concluding that the results of her study are somehow more reliable than the studies that have previously been done on the same body of literature, and which have been published after peer review. And indeed they are not, due to at least the following significant methodological deficiencies:

Dr. Smith-Bindman states that she chose to focus on serous invasive ovarian cancer because it was the only subtype "for which most individual research studies accumulated sufficient cases for valid statistical analysis," but she provides no analysis or data to support this claim. Her decision to focus on serous invasive ovarian cancer (the only subtype that previously has been associated with an increased risk from talc in any of the cohort studies) illustrates a systematic exclusion of data that do not support her theory.

Her concession that her measure of "regular" talc use was "subjective[]" is an understatement. She defines "regular use" "ideally as daily or at least more than 3 uses per week," but she also "accepted studies that defined use as 'regular' where the description made it clear that this was regular use. Sor some studies that reported "regular" use but sub-grouped that categorization, she only "included data for women in the highest use category," and only if that group "was large enough to be meaningful. And when studies "asked about ever use but defined use and stratified results by use," she "included any data that may have reflected daily use. Far too many questions arise from these vague and subjective criteria. For example, why did Dr. Smith-Bindman arbitrarily choose three uses per week as the lower threshold for regular use? Notably, this cut-off excluded the Gates study, which included data on women who used talc more

Siemiatycki Rep. at 41.

<sup>&</sup>lt;sup>59</sup> *Id.* at 31.

<sup>60</sup> *Id.* at 30.

<sup>61</sup> *Id.* at 32.

Id. at 34 ("I tried to be consistent in defining exposure, but this factor was subjectively determined by the individual studies."); see Smith-Bindman Dep. Vol. II 272:3-273:3 (Smith-Bindman "tried to approximate regular use" and has not validated her metric).

<sup>63</sup> Smith-Bindman Rep. at 32.

<sup>&</sup>lt;sup>64</sup> *Id*.

<sup>65</sup> *Id*.

than once per week (as explained below, including Gates in the meta-analysis would have lowered the odds ratio Dr. Smith-Bindman calculated for serous invasive). What criteria governed her determination of whether a study's description "made it clear" that it really addressed regular use? Why did she only use the highest use category when studies reported multiple categories of regular use, and what made such a group "large enough to be meaningful"? How did she determine "which data may have reflected daily use"? Although Dr. Smith-Bindman speculated at her deposition that other epidemiologists could repeat her analysis using her methodology, <sup>66</sup> the lack of a clear protocol and the need to reproduce seemingly arbitrary decisions in her assessment of "regular" talc use would make that very difficult, if not impossible. And importantly, whether a study reported on "regular" talc use appears to be the sole criterion Dr. Smith-Bindman employed in choosing studies for her review.

Dr. Smith-Bindman excluded studies that examined talc use on sanitary napkins, diaphragms or condoms, claiming (without any supporting data) that perineal use is "the most common exposure type and is likely to reflect the most consistent exposure." Notably, if the talc migration theory Dr. Smith-Bindman endorses is correct, data regarding talc use on condoms and diaphragms should be especially valuable, since such use introduces talc directly into the vagina. But studies examining such use have not reported an association with ovarian cancer, and her decision to exclude them again illustrates that she systematically avoided data that did not support her desired result.

Even after designing a study selection methodology that enabled her to cherry-pick studies that supported finding an association, Dr. Smith-Bindman omitted Rosenblatt 2011 after initially selecting it. That study reported negative associations between talc use and both invasive serous ovarian cancer and ovarian cancer overall for its two highest use categories. At her deposition, Dr. Smith-Bindman speculated that she omitted this study because doing so did not make a difference in her results. That is both an odd reason to exclude a study (all other things being equal, a more robust data set is obviously preferable) and objectively wrong, since her underlying data show that omitting the Rosenblatt study increased her odds ratio for frequent use and serous invasive from 1.38 to 1.52 and for frequent use and all ovarian cancer from 1.32 to 1.43. In other words, if Dr. Smith-Bindman had not excluded Rosenblatt 2011 from her final results, she would

Smith-Bindman Dep. Vol. II 357:1-15; Smith-Bindman Dep. Vol. I 102:21-104:18; *see*, *e.g.*, Smith-Bindman Dep. Vol. I 197:19-198:6 (Smith-Bindman has no written protocol setting forth the myriad assumptions she and her colleague made when abstracting data).

Smith-Bindman Rep. at 32-33.

<sup>68</sup> *Id.* at 33-34.

Rosenblatt 2011 at Table 2 (reporting point estimates of 0.78 and 0.87 for invasive tumors and all tumors in women with between 4,800 and 9,999 lifetime applications; and 0.84 and 0.87, respectively, for women with more than 10,000 lifetime applications).

<sup>&</sup>lt;sup>70</sup> Smith-Bindman Dep. Vol. I 177:20-180:13.

TalcDataResults-janehall.xlsx (compare "All papers" tab with "Excluding Rosenblatt" tab).

not have been able to opine that regular talc use is associated with a 50 percent increase in the risk of serous invasive ovarian cancer. <sup>72</sup>

The pool of studies on which she relies for her assessment of serous invasive ovarian cancer is very small – consisting of only four reports and far fewer cases overall than the broader pool of ovarian cancer studies, making the dataset less robust. Moreover, while Dr. Smith-Bindman includes the Gertig study as one of the four in her consideration of serous ovarian cancer risk, she omits the Gates study, which, as noted above, updated the findings of the NHS on which Gertig had reported and concluded after ten more years of study that there was no association between talc use and serous ovarian cancer specifically (RR 1.06 (95% CI: 0.84-1.35)). Had Gates been considered, Dr. Smith-Bindman's reported overall odds ratio of 1.52 for serous ovarian cancer would presumably have been much lower.

As noted above, Dr. Smith-Bindman admittedly made no effort to assess the quality of the case-control studies that comprise 90 percent of her meta-analysis. <sup>75</sup> As she confirmed at her deposition, this included no effort to assess whether the studies she selected adequately controlled for bias and confounding. <sup>76</sup>

Dr. Smith-Bindman admittedly abstracted inaccurate data from the studies she considered in her review. The Indeed, none of the confidence interval data she reports for the ten studies she includes in Figures 2 and 3 of her report match what was reported in the studies themselves. This is surprising since Dr. Smith-Bindman acknowledges that data abstraction is an extremely important step for a meta-analysis and that having inaccurate

See Smith-Bindman Rep. at 34.

<sup>&</sup>lt;sup>73</sup> *Id*.

<sup>&</sup>lt;sup>74</sup> Gates 2010 at 50.

Smith-Bindman Rep. at 29.

Smith-Bindman Dep. Vol. II 311:18-312:24; *see id.* 284:7-15 (agreeing that bias in underlying studies does not disappear when they are combined in a meta-analysis).

Smith-Bindman Dep. Vol. I 105:14-21.

Id. 182:13-183:24. Compare Smith-Bindman Rep. at 33 fig. 2, with Booth 1989 at 596 (Smith-Bindman (0.75-1.85) vs. study (0.8-1.9)), and Chang & Risch 1997 at 2399 (Smith-Bindman (0.51-1.39) vs. study (0.61-1.49)), and Cook 1997 at 462 (Smith-Bindman (0.55-3.05) vs. study (1.2-2.9)), and Cramer 2016 at 335 (Smith-Bindman (0.97-2.01) vs. study (1.06-2.10)), and Gertig 2000 at 250 (Smith-Bindman (0.76-1.48) vs. study (0.82-1.55)), and Harlow 1992 at 19 (Smith-Bindman (0.85-2.75) vs. study (1.1-3.0)), and Mills 2004 at 460 (Smith-Bindman (0.93-2.55) vs. study (1.14-2.64)), and Schildkraut 2016 at 1413 (Smith-Bindman (1.18-2.24) vs. study (1.26-2.33)), and Whittemore 1988 at 1231 (Smith-Bindman (0.81-2.09) vs. study (0.81-2.60)), and Wu 2009 at 1409 (Smith-Bindman (1.14-3.02) vs. study (1.34-3.23)). Compare Smith-Bindman Rep. at 34 fig. 3, with Chang & Risch 1997 at 2399 (Smith-Bindman (1.07-1.96) vs. study (1.13-2.02)), and Cook 1997 at 462 (Smith-Bindman (0.55-3.05) vs. study (1.2-2.9)), and Cramer 2016 at 342 (Smith-Bindman (1.08-2.00) vs. study (1.15-2.07)), and Gertig 2000 at 250 (Smith-Bindman (0.86-2.12) vs. study (0.98-2.26)).

data can compromise a meta-analysis.<sup>79</sup> Dr. Smith-Bindman also admits that she likely double-counted patients in her data, despite acknowledging that this should be avoided.<sup>80</sup>

In short, Dr. Smith-Bindman's meta-analysis is arbitrary, error-laden and designed to systematically exclude data that do not support the theory that talc use causes ovarian cancer. These methods are unreliable. Based on her meta-analysis, Dr. Smith-Bindman concluded that she does "not have *any uncertainty* that regular exposure to talc powder products" increases the risk of ovarian cancer; yet, it is difficult to conceive how use of such a methodology would not introduce *substantial uncertainty* into a meta-analysis, as well as any interpretation of its results.

#### 2. Bias

Bias is a particularly important issue when analyzing whether perineal exposure to talcum powder causes ovarian cancer because, as set forth above, the reported risks are very small. The reporting of small risks suggests these studies are susceptible to biases.<sup>82</sup>

Additionally, case-control studies are particularly susceptible to bias (although I agree with Dr. McTiernan that hospital-based studies may be less distorted by recall bias than population-based studies because the former feature both ill cases and ill controls). In most of the case-control studies pertaining to perineal talcum powder use and ovarian cancer, the authors discuss the potential for bias, including recall bias. However, only one study examined the issue directly, and it found striking and clear evidence of the impact of recall bias on the study results.

In the case-control study reported by Schildkraut et. al., the authors (including Dr. Moorman) considered that "the possibility of differential misclassification exists in a case-control study such as AACES, especially due to the heightened awareness of the exposure as a result of" well-publicized litigation. He investigators examined their finding based on whether the study subjects were interviewed before 2014 versus 2014 onward. Among those interviewed before 2014, the reported use of body powder on the genitals was nearly the same for cases and controls (36.5 and 34.0%, respectively). But from 2014 onward, the reported use among cases was markedly higher (51.5%), while it stayed the same in controls (34.4%). This striking and abrupt change in reporting clearly demonstrates the major impact of recall bias, and that plaintiffs' experts are wrong to label recall bias in case-control studies "theoretical." But it also calls into question earlier results because – contrary to Dr. Moorman's claim that "the vast

<sup>&</sup>lt;sup>79</sup> Smith-Bindman Dep. Vol. I 104:22-105:13, 106:6-13; Smith-Bindman Dep. Vol. II 282:16-283:3.

Smith-Bindman Rep. at 34; Smith-Bindman Dep. Vol. II 344:9-345:3.

Smith-Bindman Rep. at 4 (emphasis added).

Moorman Dep. 251:2-7 ("I think that with a smaller association, there is more concern that it could be due to bias from various reasons.").

McTiernan Rep. at 24

<sup>&</sup>lt;sup>84</sup> Schildkraut 2016 at 1416.

McTiernan Rep. at 20; Moorman Rep. at 23.

majority of studies" were not affected by this issue <sup>86</sup> – the question of talc and ovarian cancer did not emerge for the first time in 2014, and earlier studies could well have been affected by a more modest but nonetheless significant recall bias. Clearly, media reporting about talc and ovarian cancer did not begin in 2014; rather, there are multiple news reports between 1982 and 2013 (See Appendix A: Sample Of Pre-2014 News Articles Addressing Posited Link Between Talc Use And Ovarian Cancer for a list of examples). Women with ovarian cancer in that era could easily have been influenced in their recall of talcum powder use, which would potentially amplify recall bias in pre-2014 studies as well.

Dr. Moorman further argues that "empirical evidence" shows that recall bias in case-control studies is only a theoretical concern, citing a study by Lanza et al. that found that case-control and cohort studies reached similar results regarding certain therapeutic interventions. But the Lanza findings (which had nothing to do with talc) are obviously not applicable to the situation here, where the case-control and cohort studies at issue have been highly heterogeneous. 88

Other study authors have recognized the problem of bias in their studies as well. For example, a 2017 pooled study of 12 case-control studies addressing ovarian cancer risk factors in four ethnic groups found a statistically significant elevated risk for talc use among two of the four ethnic groups (Non-Hispanic White (OR 1.30 (95% CI: 1.20–1.41)) and Black (OR 1.62 (95% CI: 1.32–2.00)) and no statistically significant elevated risk for the other two groups (Hispanic (OR 1.41 (95% CI: 0.93–2.13)) and Asian/Pacific Islander (OR 1.02 (95% CI: 0.61–1.70))). The authors characterized the differences across groups as "[s]tudy heterogeneity" and cautioned: "A concern with self-reported data is recall bias, especially for characteristics that are difficult to report with accuracy, require subjective summarization or can be influenced by the investigator, media or similar factors. Such problematic characteristics may include body powder exposure[.]" "90"

#### 3. <u>Confounding</u>

Similarly, confounding factors may have affected the studies that found a small estimated risk pertaining to perineal exposure to talcum powder and ovarian cancer. This issue is especially concerning when it comes to ovarian cancer risk because, generally, scientists do not know the cause of ovarian cancer. Thus, even studies that attempt to account for known confounders (such as familial or genetic risk) likely do not account for most of the risks – known or unknown.

Moorman Rep. at 23.

Moorman Rep. at 23; Moorman Dep. 227:11-23.

<sup>&</sup>lt;sup>88</sup> See Moorman Dep. 227:24-232:15.

Peres LC, Risch H, Terry KL, et al. Racial/ethnic differences in the epidemiology of ovarian cancer: a pooled analysis of 12 case-control studies. Int J Epidemiol. 2018; 47(2):460-472.

<sup>&</sup>lt;sup>90</sup> *Id.* at 8-9.

Siemiatycki Dep. 173:6-9 (agreeing that "all of the factors that might make someone susceptible to developing ovarian cancer are not currently known").

The Sister Study<sup>92</sup> provides insight into one potential source of confounding in prior studies. In that study, the investigators accounted for douching, an exposure not considered in nearly all other studies. The authors were interested in douching because of concerns that it could "introduce particles and toxicants in the upper reproductive tract and increase the risk of cancers and infections." They cited evidence that douching products contain phthalates that "could influence ovarian cancer risk through hormone disruption." The study found that douching was a risk factor for ovarian cancer (HR 1.8 (1.2-2.8)), while talc use was not (HR 0.73 (0.44-1.2)). Douching, with or without concurrent talc use, had similar risk (HR 1.8 and 1.9, respectively). The investigators noted that the practice of douching and talc use are correlated and that "if douching is a risk factor for ovarian cancer, some of the earlier reports on talc could have been subject to confounding bias." The same study also showed that douche users are different from non-users, with users more likely being Non-Hispanic Black, of lower educational attainment and/or obese. These systematic differences highlight the complexity of understanding the potential effect of a non-random feminine hygiene practice and judging causation when estimated risks are otherwise so small.

The finding in Gonzalez that the douche users had lower educational attainment suggests that socioeconomic status may be another important confounder. Indeed, in another study by Alberg et al. the investigators found that higher educational attainment may be protective against developing ovarian cancer (or in other words, low educational attainment is associated with higher risk of developing ovarian cancer). The authors noted that if socioeconomic status is truly protective, the reasons for the relationship still need to be identified. They suggested that differences in diet and exercise could be related to risk, which overall means that assessing confounding in ovarian cancer studies is important, complex and not yet fully developed in research. What is important in assessing the epidemiologic studies of talc and ovarian cancer is that, as Dr. Smith-Bindman acknowledges, the studies did not use a uniform approach to assessing confounders, with, for example, nearly all not adjusting for douching and many not accounting for education or socioeconomic status. Accordingly, Dr. McTiernan's argument that confounding is unlikely because studies have reported small differences between adjusted and crude results is overly simplistic (and in any event ignores that studies cannot adjust for unknown confounders).

#### 4. Other Considerations

It is important to recognize that the strength of an association is not the same as the importance of the association. The importance of an association is based on the judgment of

<sup>&</sup>lt;sup>92</sup> Gonzalez 2016.

Alberg AJ, Moorman PG, Crankshaw S, et al. Socioeconomic Status in Relation to the Risk of Ovarian Cancer in African-American Women: A Population-Based Case-Control Study. Am J Epidemiol. 2016; 184(4):274-283.

<sup>&</sup>lt;sup>94</sup> *Id.* at 282.

<sup>&</sup>lt;sup>95</sup> *Id*.

<sup>&</sup>lt;sup>96</sup> Smith-Bindman Dep. Vol. II 307:21-308:24.

McTiernan Rep. at 24; McTiernan Dep. 176:17-177:23.

those using the information. A new medication that reduces death from heart attacks by 2% may be judged to be very important, and if that drug causes itching in 30% of users, that finding may be judged less important. An effect that is judged to be important is not evidence of causation, however.

In this matter, some of plaintiffs' experts have provided confusing opinions about strength of association. While the strength of association between talcum powder use and ovarian cancer is indisputably small, the experts have nevertheless found it to be "strong" by discussing their judgments about the potential importance of the findings and also by bringing in other arguments, such as statistical significance. For example, Dr. Smith-Bindman states:

"It is frequently argued that the larger an apparent association, the more likely the association is to be real (causal) and important for epidemiological assessment. This would suggest that an OR of 2.0 is more likely to indicate causality and importance than an OR of 1.5. While this is often argued, I do not believe this is necessarily the case. If a risk factor increases the risk of disease by 50%, and the exposure is common, it will have far greater impact on a number of people, in comparison to a rare exposure that has a higher associated OR. A larger association between exposure and disease may be easier to identify, but I do not believe it is more likely to indicate causality or importance." 98

Dr. Smith-Bindman is conflating the distinct issues of causation and importance in arguing that "the data supporting the causality of talcum powder products exposure for ovarian cancer is extremely strong." She goes on to calculate the number of ovarian cancers she believes are caused by talcum powder products and uses this calculated number of cancers to support her statement that "this Bradford Hill Factor of the Strength of the association is important and met." In other words, Dr. Smith-Bindman opines that because, according to her calculations, a large percentage of ovarian cancer is caused by talcum powder, the association is "strong." This statement is misleading and circular because Dr. Smith-Bindman is using the "importance" of the finding, which is only important if true (i.e., causal), to support the judgment that the very small association is causal. One needs to first determine if an association is causal, and only then, if it is causal, decide on its importance.

Other plaintiffs' experts make similar conflated arguments. Dr. Blair Smith uses the potential importance of the finding in her assessment of the strength of association when she states that "there is no set magnitude or threshold for ascribing causality. I would maintain that any practice or element that increases the risk of ovarian cancer by ANY consistent percentage is significant." Dr. Moorman also states that it is "critical to consider the prevalence of the exposure" in assessing strength of association and "how many cases of disease could be

<sup>98</sup> Smith-Bindman Rep. at 36.

<sup>&</sup>lt;sup>99</sup> *Id.* at 37.

<sup>100</sup> *Id.* at 38.

Blair Smith Rep. at 19.

attributable to this exposure." <sup>102</sup> Likewise, Dr. McTiernan, although admitting the risks are approximately 22-31% (equivalent to RR ~1.2-1.3), expressed the opinion that the association is strong because "given the high prevalence of use of talcum powder products" in this population, these levels of risk present a clinically significant public health concern." <sup>103</sup> Thus, Drs. Blair Smith and McTiernan are using the concept of importance to justify the strength of a very small numerical risk. Furthermore, Dr. McTiernan's opinion about the strength of association is confusing for the additional reason that she folds in other criteria such as consistency of findings, which should be assessed separately. Dr. McTiernan's conflation of many different concepts makes her Bradford Hill analysis unreliable.

Plaintiffs' experts also cite to examples of "established carcinogens" with similar estimates of strength of association – like passive smoke exposure and lung cancer, or hormone replacement therapy and breast cancer – to conclude that the association between talc and ovarian cancer is strong enough to be causative. Although it is true that the associations are numerically similar, it is improper to conclude that any association of the same size is causal. After all, for those other exposures, the fact of a weak association may have been overcome by strong evidence that the other Bradford Hill criteria were met. And, as Dr. Moorman concedes, there are also examples of numerically similar associations that have not been established as causal. Additionally, causation for certain of these other examples was based on data from randomized trials, which are the strongest evidence of a causal relationship. For example, the clinical trials pertaining to hormone therapy and breast cancer randomly assigned patients to treatment and control groups, rendering a high likelihood that any association that is observed is due to the exposure, as opposed to bias or confounders. In other words, the causal relationship between hormone therapy and breast cancer is based on better data, not on the finding of a small association.

Additionally, plaintiffs' experts' heavy reliance – and in the case of Dr. McTiernan, exclusive reliance <sup>107</sup> – on meta-analyses and pooled analyses to demonstrate strength of association is flawed in many respects. First, as plaintiffs' experts have repeatedly acknowledged, the meta-analyses do not eliminate the bias inherent in the underlying studies. <sup>108</sup> And although plaintiffs' experts focus on newer studies, <sup>109</sup> Dr. Siemiatycki admits that the

<sup>&</sup>lt;sup>102</sup> Moorman Dep. 261:1-262:1.

McTiernan Rep. at 9.

Singh Rep. at 17; Moorman Rep. at 12; Moorman Dep. 245:10-16; Siemiatycki Dep. 148:8-19.

Moorman Dep. 255:12-25 ("I acknowledge that – of course, that there are reports of exposures that have reported relative risk in this range, and it could either be something that was associated with another risk factor and it was not the causal factor or the level of evidence was not adequate.").

Chlebowski RT, Hendrix SL, Langer RD, et al. Influence of estrogen plus progestin on breast cancer and mammography in healthy postmenopausal women: the Women's Health Initiative Randomized Trial. JAMA. 2003; 289(24):3243-3253.

McTiernan Rep. at 63; McTiernan Dep. 243:7-14.

<sup>&</sup>lt;sup>108</sup> McTiernan Dep. 244:9-13; Moorman Dep. 159:8-160:18.

McTiernan Dep. 282:2-4.

relative risks have gone down as more data has been collected over the years. For example, the 1.28 odds ratio provided by Dr. Siemiatycki in his 2018 meta-analysis is lower than the 1.35 relative risk published in the 2008 Langseth article. And Dr. Siemiatycki acknowledged that the Berge 2018 authors noted a downward trend in the risk assessment over time. 111

Finally, Dr. Smith-Bindman reports finding a slightly higher odds ratio of 1.52 by focusing on the particular histologic subtype of serous ovarian cancer. But this alternative approach to the issue of strength does not materially affect the analysis. An odds ratio of 1.52 remains well below 2.0 and would still be considered a weak association. The studies offering odds ratios for serous ovarian cancer, like the broader pool of studies, contain a mix of findings, with some reporting statistically significant findings and others not. And Dr. Smith-Bindman's methodology to reach the 1.52 odds ratio was deficient for the numerous reasons discussed above.

Based on the foregoing, it is my opinion that the association between perineal talcum powder exposure and ovarian cancer is weak and likely impacted by bias, confounding and/or chance. Moreover, plaintiffs' experts' attempts to explain away these problems and cast the science as standing for essentially the opposite proposition – that the epidemiology establishes a strong or conclusive association – strongly suggest that they are engaged in advocacy rather than science.

#### B. <u>Epidemiologic Studies Are Inconsistent.</u>

As set forth above, the prospective epidemiologic studies (cohort studies) do not show a statistically significant association, while only a subset of the population-based case-control studies does. This disparity reflects inconsistent results across different types of studies, undermining the conclusion that cosmetic talc use causes ovarian cancer. The fact that none of the cohort studies found a statistically significant association between talc use and ovarian cancer is critical in this regard, because it calls into doubt even the modest association in some of the population-based case-control studies.

Other inconsistencies exist in the literature as well, including some that overlap with the concepts of coherence and plausibility. Evaluating an association with the use of talc-dusted

Siemiatycki Dep. 149:14-150:3.

<sup>&</sup>lt;sup>111</sup> Siemiatycki Dep. 206:21-207:19.

Smith-Bindman Rep. at 34.

<sup>113</sup> *Id.* at 34 fig. 3 (citing four studies, one of which (Cook 1997) reported a statistically insignificant result, and two of which have confidence intervals that are only barely above 1.0).

As just explained, this disparity holds for the subtype of serous ovarian cancer as well, as to which the Gates study reported no statistically significant association.

Berge 2018 at 251.

Fiume MM, Boyer I, Bergfeld WF, et al. Safety Assessment of Talc as Used in Cosmetics. Int J Toxicol. 2015; 34(1 Suppl):66S-129S, 119S ("Fiume 2015"); Hartge 1983; Muscat JE, Huncharek MS. Perineal talc use and

diaphragms and condoms has been deemed "the most valid method for testing the carcinogenic potential of talc" because "[b]y definition, the female reproductive tract is exposed to talc containing powders introduced by diaphragms, whereas an exposure route based on perineal dusting requires unproven assumptions about vaginal exposure." Studies pertaining to use of talcum powder on diaphragms and condoms have shown a consistent lack of risk. It is illogical that talcum powder applied to the outside of the genital tract can cause ovarian cancer, while talcum powder applied inside the genital tract would not. Additionally, assertions by plaintiffs' experts that these studies are "obsolete" due to a "lower methodological quality" are merely unfounded assertions.

Some of plaintiffs' experts still argue that the data on the association between genital talc use and ovarian cancer are highly consistent, but their explanations fail.

For example, Dr. McTiernan states that "[a]cross the case-control and cohort studies, the association between use of talcum powder products and risk of ovarian cancer was highly consistent." This statement is simply not true: while some of the case-control studies have shown a small positive risk, the cohort studies have uniformly failed to demonstrate a risk, as Dr. McTiernan admits. She states further that because the cohort studies "were not well designed to determine true risk for ovarian cancer and perineal talc use their results as a group do not negate the significant case-control findings." But her criticisms of cohort studies are misplaced, as previously discussed. In any event, her argument assumes that the results of some studies are not consistent, or else there would be no reason for Dr. McTiernan to find fault with the cohort study designs in order to explain why their results do not negate the findings from other studies. Furthermore, Dr. McTiernan completely ignores the fact that within the case-control studies, there is evidence of inconsistency based on the type of control group. The different findings in the case-control studies by type of control group is further evidence of inconsistency.

Drs. Singh and Moorman purport to find consistency because "[t]he meta-analysis of case-control studies has consistently shown a statistically significant increased risk" and "the meta-analysis of cohort studies has also shown an excess risk, [] which failed to reach statistical significance." This consistency analysis is faulty for two reasons. First, since meta-analyses

ovarian cancer: a critical review. Eur J Cancer Prev. 2008; 17(2):139-146, 144-145 (2008) ("Muscat & Huncharek 2008").

Muscat & Huncharek 2008.

Singh Rep. at 17, 26-27.

McTiernan Rep. at 64.

McTiernan Dep. 200:25-201:10 ("So yes, there was heterogeneity between the case-control and cohort studies"), 202:17-203:1 ("I agree that the cohort studies have lower relative risks than do the case-control studies, yes.").

McTiernan Rep. at 64.

Singh Rep. at 17; Singh Dep. 146:25-147:5 (stating "[t]he cohort studies show . . . increased risk, which is in the same direction as the case-control studies"); Moorman Dep. 262:20-264:13 (explaining that "both the Houghton study and the Nurses' Health Study . . . are consistent in terms of the direction of the effect").

analyze overlapping sets of individual studies, it is not surprising that meta-analyses yield consistent results. For this reason, consistency as determined by the meta-analyses' estimates is not supportive of Bradford Hill's consistency of association criterion. Second, as Drs. Singh and Moorman admit, the purported "excess risk" or "direction of the effect" shown in the metaanalyses of cohort studies does not amount to "statistical significance." 123 Drs. Singh and Moorman's classification of "excess risk" or "direction of the effect" glosses over the fact that case-control studies and cohort studies found varying strengths of association that do not amount to consistent results. Similarly, Dr. McTiernan's purported assessment of consistency by "look[ing] at whether the relative risk is above one consistently" is so broad that it is nonsensical, as it would consider near-null associations and definitively causal associations consistent. 124 And plaintiffs' experts' argument that certain studies would have shown a statistically significant increased risk if they had larger sample sizes (i.e., Dr. McTiernan with respect to cohort studies and Dr. Moorman with respect to small, non-statistically significant associations in African American and white women found in her 2009 study)<sup>125</sup> is speculative because there is no way to know whether a larger sample would provide the same or a different estimate or whether that estimate would be statistically significant. I note that the fact that Dr. Moorman did not include these results from her own 2009 study in her report suggests a biased approach to synthesizing the literature. <sup>126</sup> In any event, Drs. McTiernan and Moorman likewise ignored the Berge study's analysis demonstrating that the cohort studies collectively had sufficient power to detect a 1.25 relative risk if one existed; as the authors stated, "low power of cohort studies cannot be invoked as [an] explanation of the heterogeneity of results."127

#### C. Specificity Is Not Compelling.

Specificity was not considered very important by plaintiffs' experts and I agree. <sup>128</sup> There is no compelling case for specificity here either.

## D. <u>The Epidemiological Data Do Not Show Biological Gradient (Dose Response).</u>

#### 1. Available Epidemiological Data On Dose-Response

Evidence of dose-response - i.e., whether the risk of developing ovarian cancer increases with increased perineal talc exposure - is one of the most important factors to consider in

<sup>&</sup>lt;sup>123</sup> Moorman Dep. 266:6-16.

McTiernan Dep. 212:17-21; *see* McTiernan Rep. at 44 (considering the near-null and not statistically significant 1.06 odds ratio reported in Houghton 2014 evidence of consistency of association); Moorman Dep. 263:13-264:13 (similar).

<sup>&</sup>lt;sup>125</sup> McTiernan Rep. at 45-46; Moorman Dep. 136:12-19.

Moorman Dep. 136:21-137:2; *see* Moorman PG1, Palmieri RT, Akushevich L, et al. Ovarian cancer risk factors in African-American and white women. Am J Epidemiol. 2009; 170(5):598-606 (reporting non-statistically significant odds ratios of 1.19 and 1.04 for African American and white women, respectively).

<sup>&</sup>lt;sup>127</sup> Berge 2018 at 253; *see* Moorman Dep. 213:2-23; McTiernan Rep. at 46-47.

Singh Rep. at 64.

evaluating causation. The epidemiological literature studying talc and ovarian cancer has failed to show a dose-response relationship. Plaintiffs' experts claim that there is sufficient data supporting the existence of a dose-response relationship<sup>129</sup> and have pointed to some studies as purported evidence of dose-response, including, for example, the articles by Schildkraut and Cramer. But overall, the literature is very inconsistent with regard to dose-response, as Drs. Smith-Bindman and Moorman concede. <sup>131</sup>

None of the cohort studies (Gonzalez 2016; Houghton 2014; and Gates 2010/Gertig 2000) demonstrates a dose-response relationship, and only a handful of case-control studies (Harlow et al. 1992; Cramer 2016 and Schildkraut 2016) have purported to find one. The casecontrol studies have in fact shown a wide variety of findings, including: (1) a positive doseresponse; (2) no dose-response; (3) a negative dose-response; and (4) a haphazard or bizarre pattern. Notably, among the numerous case-control studies that have not reported a doseresponse relationship are several studies that have analyzed "cumulative" talc use (otherwise known as "frequency times duration" of use). For example, Mills 2004 examined cumulative dose by quartiles and reported risks of 1.03, 1.81, 1.74 and 1.06 for ascending quartiles – a bizarre trend that does not support there being a dose response. 132 Similarly, the Cook 1997 study looked for an association across various strata of "cumulative lifetime days." The results showed no statistically significant elevated risk for any of the four categories, with the relative risk for the lowest group (fewer than 2,000 cumulative days, RR 1.8 (95% CI: 0.9-3.5)) essentially matching that of the highest group (greater than 10,000 cumulative days, RR 1.8 (95% CI: 0.9-3.4)). <sup>134</sup> Moreover, as noted above, the Rosenblatt 2011 study looked at the association across four categories of increasing lifetime applications and reported the lowest associations (in fact, negative associations) for its two highest use categories. <sup>135</sup> In addition, Chang found an inverse relationship with risks related to use per month of 1.8, 1.1 and 0.9 for respectively <10, 10-25 and more than 25 applications; similar inverse findings for years of use were 1.7, 1.4 and 0.86 for <30, 30-40 and >40 years of use. 136

Although some studies have purported to observe a dose trend with cumulative use, those results are not meaningful. For example, the Schildkraut study only compared women who had used talc fewer than 20 years versus more than 20 years and fewer than 3600 applications versus

Singh Rep. at 55-56; Smith-Bindman Rep. at 39-40.

Singh Rep. at 56.

Smith-Bindman Rep. at 40 ("most but not all studies of talcum powder products and ovarian cancer show a dose response, but the results are inconsistent, and more importantly, are not considered or assessed in most of the published studies"); Moorman Dep. 272:5-10 ("across the studies, some have found a dose-response, some have not").

<sup>&</sup>lt;sup>132</sup> Mills 2004.

<sup>&</sup>lt;sup>133</sup> Cook 1997 at 463.

<sup>&</sup>lt;sup>134</sup> *Id*.

Rosenblatt 2011 at 740.

<sup>&</sup>lt;sup>136</sup> Chang & Risch 1997.

more than 3600 applications.<sup>137</sup> Although it found statistically significant associations for the higher but not lower use categories, the study provides little useful information about doseresponse because exposure is crudely dichotomized into just two categories each for frequency and duration. And the Cramer study found essentially no difference – and certainly no steady increase – in risk as to women who had (as the study calculated) used talc for the equivalent of 1-5 years, 5-20 years and more than 20 years (odds ratios of 1.36, 1.41 and 1.39, respectively).<sup>138</sup>

Several meta-analyses and pooled studies have analyzed the body of studies and resoundingly concluded that there is not a demonstrated dose response. For example, the 2013 Terry pooled study of eight case-control studies addressed the potential association between ovarian cancer and the use of powder (broadly defined to include both talc and cornstarch). 139 One of the primary goals of the analysis was to determine whether a dose-response relationship existed, as previous evidence "ha[d] been inconsistent." The authors found that it did not. 141 Indeed, although Dr. Siemiatycki claims that this study is "the most important evidence around dose-response," the authors stated that they "observed no significant trend in risk with increasing number of lifetime applications," as he has acknowledged. 142 The Terry study, in fact, only observed a positive dose trend when including non-talc users in the analysis, 143 which is not actually meaningful evidence of a dose response, since including nonusers in a doseresponse analysis makes that analysis redundant with whether there is an association with ever/never use, as Dr. Siemiatycki acknowledges. 144 Although Dr. Siemiatycki argues that it may be appropriate to include nonusers in the dose-response analysis when a study only reports on dose-response and not ever/never use, 145 that clearly does not apply to the Terry study, which reported on both types of data. Of note, the Terry authors did not mention the trend with nonusers in their abstract or discussion, instead highlighting that they found "no significant [dose] trend" and explaining that "[w]hether risk increases with number of genital powder applications and for all histologic types of ovarian cancer . . . remains uncertain." The authors also acknowledged that, if anything, the study might *overstate* the relationship between powder use and ovarian cancer if cases [i.e., women with ovarian cancer] were more likely to report

Schildkraut 2016 at 1415-1416 (Table 2).

<sup>138</sup> Cramer 2016 at 337 (Table 1).

<sup>&</sup>lt;sup>139</sup> Terry 2013 at 812.

<sup>&</sup>lt;sup>140</sup> *Id*.

<sup>&</sup>lt;sup>141</sup> *Id*.

*Id.* at 811, 812 (emphasis added); Siemiatycki Dep. 197:17-22, 266:8-15, 268:14-21.

<sup>&</sup>lt;sup>143</sup> Terry 2013 at 817.

Siemiatycki Rep. at 43 ("If the Ever/Never result is presented and then a dose-response analysis is conducted, it is preferable to maintain statistical independence of the two analyses by excluding the baseline unexposed category from the dose-response analyses).

<sup>&</sup>lt;sup>145</sup> *Id* 

Terry 2013 at 811, 819-20.

genital-powder use than controls [i.e., women without ovarian cancer]."147

Similarly, a 2008 meta-analysis identified "the absence of clear exposure-response associations in most studies" as a crucial piece of missing evidence needed to establish causation. And in assessing the body of literature, the National Cancer Institute ("NCI") and the United States Food & Drug Administration ("FDA") have respectively concluded that "a dose response relationship was not found" and that "dose-response evidence is lacking." Although two more recent meta-analyses claimed to find evidence of a very small dose-response, these data are not compelling. Specifically, Berge 2018 reported a "weak" dose-response trend, but cautioned that these data came from a small number of case-control studies. And Penninkilampi divided talc users into only two categories (greater and fewer than 3,600 lifetime applications), finding only a "slightly greater increased risk" for the former category (also based only on case-control data). As with Schildkraut, the arbitrary dichotomous categorization of lifetime use further undercuts the significance of this finding.

Consistent with these results, pathological studies have not reported a correlation between the amount of talc used and talc particle counts in ovaries. As one study explained: "ovarian talc particle burden has been found not to correlate with the reported number of lifetime applications, which (if not reflective of inaccurate reporting) may indicate that duration of the powder use is not relevant when assessing risk associated with differing levels of exposure to talc." <sup>152</sup>

In sum, the findings of so many different patterns, or lack of patterns, by dose-response estimation weighs against causation, and indeed, the fact that the data show no clear dose trend is consistent with there being no causal relationship. If one were to believe that perineal talcum powder use causes ovarian cancer, these mixed and inconsistent results should cast serious doubt

<sup>147</sup> *Id.* at 820.

Langseth 2008 at 359; *see* Gertig 2000 at 249, 251 (cohort study concluding that "[w]e did not observe a dose-response relationship with talc use, and previous studies have been inconsistent in this regard"); Cramer 1999 at 355 (case-control study by Dr. Daniel Cramer conceding that "[t]he most obvious weakness in the argument for biologic credibility of the talc and ovarian cancer association is the lack of a clear dose response" and that "[m]ost talc and ovarian cancer studies that have addressed dose response, including this one, have failed to demonstrate consistent dose response relationships").

National Cancer Institute, Ovarian, Fallopian Tube, and Primary Peritoneal Cancer Prevention (PDQ®)—Health Professional Version, https://www.cancer.gov/types/ovarian/hp/ovarian-prevention-pdq (last updated Jan. 4, 2019); Letter from Food & Drug Administration, U.S. Department of Health and Human Services, to Samuel S. Epstein, M.D., Cancer Prevention Coalition, University of Illinois (Apr. 1, 2014); International Agency for Research on Cancer, Monographs on the Evaluation of Carcinogenic Risks to Humans Vol. 93: Carbon Black, Titanium Dioxide, and Talc 18-19 (2010) ("IARC Talc Monographs") (concluding that evidence of a dose-response relationship was "inconsistent").

Berge 2018 at abstract, 255.

Penninkilampi 2018 at 45.

Rosenblatt 2011 at 742 (discussing Heller DS, Westhoff C, Gordon RE, Katz N. The Relationship Between Perineal Cosmetic Talc Usage and Ovarian Talc Particle Burden. Am J Obstet Gynecol. 1996; 174(5):1507-1510 ("Heller 1996")).

on the validity of the measures used to estimate whether and how much talcum powder was used.

#### 2. <u>Validity Of Exposure Measure</u>

In epidemiologic research, it is critical to assess exposures of interest with accuracy and precision. This includes measuring exposures with tools that have demonstrable validity. Without a validated measure of exposure, it is not possible to know whether or not an exposure occurred, and even if it did, it is not possible to quantify the exposure with any degree of certainty.

While there is a scientific approach for development and testing of survey questions for use in research, <sup>153,154,155</sup> there is not a single epidemiologic study of the potential association between perineal use of cosmetic talcum powder and ovarian cancer that has used, or purports to have used, a validated measure of talcum powder use. <sup>156</sup> Thus, it is unknown whether any of the studies have accurately assessed whether talcum powder was used, for how long and how frequently. Self-report measures can be highly inaccurate, and none has been shown to be valid. In studies of medication use, for example, validation of self-report can come from examining pharmacy dispensation records or deploying electronic counters to medications as objective measures to validate a person's reported use of a medication. No such efforts have gone into the development of questions about self-reported talc use.

Even more important, perhaps, is that no study has a measure that has been shown to estimate the relevant dose of talcum powder. An "application" of talcum powder has no standard definition. It is unknown how much, if any, talcum powder reported on any of the questionnaires is applied to the perineum, how much, if any, reached the vagina, nor how much, if any, reached the ovaries. The problem is especially profound in this context, because slight inaccuracies in estimating the amount used on a daily basis could significantly alter total estimated use where the history in some cases spans multiple decades. Thus, it is impossible from the studies to determine how much, if any, talcum powder was applied to the perineum, and likewise impossible to measure how much, if any, talcum powder migrated into the vagina, across the cervix, up through the uterus and eventually reached the ovaries. At best, the wide variety of non-validated measures of talcum powder use can collect hypothesis-generating data, and there is no assurance that any estimates of talc use are accurate or valid.

Below is an example of the challenges presented when a validated measure of exposure is nonexistent:

See generally Aday LA, Cornelius LJ. Designing and Conducting Health Surveys: A Comprehensive Guide. 3rd ed. San Francisco, CA: 2006.

Fowler FJ Jr. Survey Research Methods. 5th ed. Thousand Oaks, CA: 2014.

Seifert B. Validity criteria for exposure assessment methods. Sci Total Environ. 1995; 168(2):101-107.

See McTiernan Dep. 53:18-22 ("It was not possible to determine exactly how much talcum powder product was used").

Consider the question of whether or not consumption of milk can either cause or protect against the development of allergies. It might seem simple that one could design a survey to ask people, with and without allergies, about their past consumption of milk. A question could be: in the past 12 months, did you drink milk? People with and without allergies could be compared by whether or not they drink milk. But does the development of allergy depend on the amount of fat in the milk? In that case, we need to ask if the milk was whole milk, skim milk, 1%, or 2% fat? And does the person only drink one of those types of milk or multiple types of milk? Perhaps a person drinks 2% milk, but uses half-and-half in their coffee. So, we would need questions to understand that. In case people change their milk preferences over time, we might need questions to determine at what ages the person drank whole milk, for example, and then when did they start also drinking skim milk.

But what if the issue of allergy is related to protein in milk? Then we need to be able to assess any other beverages and foods that contain milk protein. We cannot simply ask about milk. The range of foods with milk protein is tremendous and includes yogurt, milkshakes, and breads. Among breads alone, milk protein can be found in loaves of bread, biscuits, donuts, crackers, pancakes, waffles, French toast and others. Milk protein can be found in other foods, too, such as cereals and desserts, including cake, cookies, pudding, ice cream and pastries. Milk protein may be in scrambled eggs, butter, cream and margarine, salad dressing and even some "non-dairy" creamers. The list of foods with milk proteins goes on and on, even including meat products such as sausage, vegetables prepared *au gratin* or with butter or cream, candy including chocolate and many soups, chowders and bisques.

It should be apparent that our simple question about milk is far more complicated than whether or not one drinks milk.

Once we have identified all of the foods and beverages we need to ask about, we still need to determine the amount, or "dose," of milk consumed. This step can be very difficult. If you ask about eating soup that may have milk in it, how do you quantify if? A cup or a bowl? How big is the cup? Is the cup full to the top or about 2/3 of the way up? How much milk is in a "glass" of milk? We might need some tools to use, such as food models or empty containers, to show the person telling us the amount they consumed.

And then if we agree on a way to standardize how large is a portion of soup or milk, how do we know that people are accurately reporting when they say they typically drink 3 glasses of milk per week? The answer is: if we want to come close to knowing the truth, then we have to demonstrate the validity of the questionnaire.

The validation process is separate from the research study and typically enrolls other people for the sole purpose of determining whether and how well the questionnaire works. One method is to ask people to fill out very detailed food diaries for a few different days (in nearly real-time as they are eating and drinking, so the information is fresh) and then compare how those same people answer a question a week later about what they consumed over the past week. The extent to which the answers using the two methods are in agreement provides evidence for the validity of the survey questions. Other approaches include asking people to take pictures of what they eat to use for validation. The main point is that there is a formal process of determining the validity of survey questions that is necessary if one wants to collect high quality data and be able to approximate the truth.

Certain of plaintiffs' experts have raised related issues in their critiques of the evidence for and against dose-response. 157 However, these same issues of validity of the exposure measure are just as important for assessing the overall proposition of whether or not talcum powder causes ovarian cancer. For example, Dr. Smith-Bindman criticizes Gates and other cohort studies for examining any talc use (which she labels "a weak, crude predictor"). <sup>158</sup> But if Dr. Smith-Bindman believes the cohort studies suffer from assessing "any" use, she should apply this criticism even-handedly to the case-control studies and meta-analyses (such as the Penninkilampi study) that did the same. And she further should have pointed out that the questionnaires that case-control studies use to assess talc use habits are often haphazardly designed and not validated. Indeed, as Dr. Smith-Bindman observes, the Terry study (which numerous plaintiffs' experts rely on heavily) reported that the prevalence of powder use by controls in the underlying studies ranged from 15 to 45 percent, which she attributes to "variation in the definition of powder use" in the underlying studies it examined. 159 Her point affirms concern about the validity of talc exposure assessment and that the magnitude of error could be tremendous. But cohort studies are not uniquely subject to exposure assessment problems, and it is inappropriate for plaintiffs' experts to criticize them for this reason while ignoring similar issues with case-control studies. 160

Further highlighting the importance of using validated measures of exposure, Dr. Colditz described the evolution of the Nurses' Health Study and noted that "there have been continuing efforts to validate questionnaire-based exposure measures used in the study." For example, in order to measure nutritional exposures that might be relevant to cancer and other disease risks, Dr. Colditz noted that "[a]ssessment of long term diet is necessary to relate nutrient intake to the risk of chronic diseases," and that "this is best accomplished through the use of a food-frequency questionnaire." Further, he stated that the "Nurses' Health Study investigators have devoted great attention to the development, evaluation and refinement of food-frequency questionnaires

<sup>&</sup>lt;sup>157</sup> Singh Rep. at 55.

Smith-Bindman Rep. at 21.

Smith-Bindman Rep. at 28.

E.g., Moorman Dep. 187:13-18 (criticizing Gonzales 2016).

Colditz GA, Hankinson SE. The Nurses' Health Study: lifestyle and health among women. Nat Rev Cancer. 2005; 5(5):388-396. ("Colditz 2005").

for epidemiological applications." There were no such efforts employed in the NHS, nor in any other study, to develop and validate measures of talcum powder use.

Other authors have repeatedly discussed the limits of exposure measures in the epidemiologic studies. For example, in Schildkraut, the authors stated: "A recent publication of data from the WHI, which did not find an association with genital talc use and ovarian cancer, was accompanied by an editorial that emphasized the challenges in assessing the exposure to talc due to reliance on self-report. This limitation in the measurement of the exposure variables in the current study needs to be considered when interpreting our results." And the Berge authors noted as a limitation to their meta-analysis that "neither the definition of the exposure of interest (genital talc use) nor the strategy for adjustment for potential confounders were fully consistent across studies." <sup>163</sup> Another limitation was the "self-reported information on the main exposure of interest, with no external validation." <sup>164</sup> In the Langseth (2008) paper, the authors noted that "the current body of epidemiologic evidence is insufficient to establish a causal association between perineal use of talc and ovarian cancer risk," and pointed to the "crudeness of the exposure metric used," and that "it is important that future studies, irrespective of study design, devote some effort to better assessment of exposure." This "crudeness" of the exposure measure was apparent in Terry (2013) as the authors needed to define genital powder use as "any type of powder (talc, baby, deodorizing, cornstarch or unspecified/unknown)" and acknowledged that a study limitation was "differences in the wording of questions about genital powder use between studies." <sup>166</sup> In the same vein, another author cautioned that composition of body powders varies from one brand to the next. Thus, "[d]ata from additional cohort studies would be welcome, but without details concerning the composition of the powders used by cohort members—details that many participants may not be able to provide—the results of such studies may be similarly ambiguous in their interpretation." Dr. Cramer, a plaintiffs' expert in prior talc cases, similarly acknowledged that "[t]here are inherent limitations quantifying a doseresponse due to a lack of metrics for how much talc is in an 'application,' how much enters the vagina, and how much reaches the upper genital tract where, presumably, any deleterious effect is mediated." <sup>168</sup> Many other authors expressed similar concerns pertaining to the accuracy of exposure measurements. 169

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Schildkraut 2016 at 1416.
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Berge 2018 at 255.

<sup>&</sup>lt;sup>164</sup> *Id*.

Langseth 2008.

Terry 2013 at 812, 820.

Rosenblatt 2011.

<sup>168</sup> Cramer 2016 at 344.

Gonzalez 2016 ("one challenge with studying talc is that the chemical formulation of talc has changed over time, and not all powders contain the mineral talc"); Cook 1997 ("it is not clear how ascertainment of perineal powder application correctly estimates actual exposure to particles in powder that may influence ovarian cancer risk"); Mills 2004 at 463 ("the lack of dose response between talc use and EOC may be explained by the inability to quantify the actual amount of talc used per application and timing of the application"); Rosenblatt 2011 ("the validity of all these studies, including ours, may be influenced by the level of non-response among cases and

In sum, without a validated measure of talcum powder use, it is impossible to correctly determine whether or not an exposure occurred or the quantity of purported exposure, making it impossible to reliably conclude that there is a causative relationship between perineal talcum powder use and ovarian cancer based on the current literature.

#### E. The Epidemiological Data Do Not Demonstrate Temporality.

The strongest evidence for temporality comes from studies that assess the exposure at one point in time, and then assess the outcome at a future time. The prospective cohort studies are the only studies in this matter that do that and thus represent the best evidence to assess temporality. As described more fully above, the cohort studies failed to show an association of ovarian cancer with talcum powder use. The case-control studies ask about past exposure, but they ask those questions at the same time that the outcome is already known. Temporality is assumed in case-control studies, though it is not a fact, as it is in cohort studies (or clinical trials). That is the reason that recall errors and recall bias are such a concern in case-control studies. Unlike prospective studies, subjects need to accurately remember and report past exposures. Recall bias occurs when people with a disease, compared to those without a disease, report different exposure histories compared to the truth. People with a disease may be more likely to recall or report exposures than those without the disease, which can inflate the apparent risk. This distortion is especially important when measured risks are low.

While it is a different concept from temporality, latency is a concept that is important to consider when evaluating temporality. Latency is the time from exposure to development of disease. When latency is known, one would want to make sure that not only did the exposure occur in the past, but that it occurred long enough ago in the past that a cancer would have time to develop. Obviously, without determining whether or not talcum powder causes ovarian cancer, it is not possible to state that there is a known latency. Nonetheless, Dr. Wolf states that the average latency period between exposure to talc and diagnosis of ovarian cancer is at least 20 years, citing two articles that do not examine this issue. Based on this theory, several experts have stated that a limitation of the cohort studies is that they were not of sufficient length to capture latency. Obviously, without a known latency period, that concept is only speculative. Moreover, as explained above, the cohort studies have accounted for decades of talcum powder use. Thus, if women started using talcum powder at approximately 20 years

controls, and by the potential for misclassification (differential and non-differential) of exposure status. The latter derives not just from errors in the recall of the use of genital powder, but from the fact that the presence or concentration of talc can vary from brand to brand and even within one brand of powder over time. Therefore, even when respondents are asked specifically about perineal exposure to powders that contain talc (as in our study), they may be unable to provide accurate information.").

Purdie DM, Bain CJ, Siskind V, et al. Ovulation and risk of epithelial ovarian cancer. Int. J. Cancer. 2003; 104:228-232.

Okada F. Beyond foreign-body-induced carcinogenesis: Impact of reactive oxygen species derived from inflammatory cells in tumorigenic conversation and tumor progression. Int. J. Cancer. 2007; 121:2364-2372.

Wolf Rep. at 15.

Singh Rep. at 11, 53; McTiernan Rep. at 47.

old<sup>174</sup> and the latency period is approximately 20 years,<sup>175</sup> then both the Women's Health Initiative Study and Sister Study would account for a sufficient latency period.

#### F. The Epidemiological Data Lack Coherence.

Dr. Hill stated that the cause and effect interpretation of the data "should not seriously conflict with the generally known facts and the biology of the disease." Dr. Hill cited the example of temporal trends in the rise in lung cancer rates while smoking was increasing. But here, there are no published studies that have demonstrated any such ecological coherence with talcum powder and ovarian cancer. Specifically, I can find no published studies that have examined trends in ovarian cancer rates in relation to trends in talcum powder use. Dr. Hill also cited, as an example of coherence, the changes of bronchial epithelial cells in smokers. But again, here there are no studies that have demonstrated histopathological differences in ovaries of talc users and non-users (nor in any tissues of the female genital tract). This fact strongly argues against coherence.

#### G. <u>No Experimental Evidence.</u>

There is no experimental evidence of the relationship of talcum powder use and ovarian cancer in humans, as plaintiffs' experts agree. <sup>176</sup>

#### H. The Epidemiologic Data Is Not Analogous.

A few of the experts considered analogy, although Dr. Moorman "did not weight it heavily" and Dr. Singh found it "less significant than other viewpoints." They and other experts opined that talcum powder's similarity to asbestos offers an appropriate analogy, 179 but asbestos and talc are distinct minerals, with distinct elemental composition and morphology, and it cannot simply be assumed that epidemiological study of asbestos can be applied by analogy to the case of talc, especially in light of the fact that talc itself has been extensively studied and its epidemiological literature reports vastly different risk levels than the asbestos literature. In particular, the talc/asbestos analogy is unpersuasive because talc exposure is not associated with an increased risk of mesothelioma or lung cancer (diseases caused by asbestos), and as set forth below, it is far from clear that asbestos causes ovarian cancer. Moreover, the limited analogy arguments that plaintiffs' experts advance do not make sense. For example, Dr. Moorman compares asbestos to "asbestiform talc," but fails to explain why her attempted analogy applies to platy talc. Dr. Smith-Bindman similarly refers to talc's "fibrous nature," even though platy

<sup>174</sup> Cramer 2016 at 335.

Wolf Rep. at 15.

Moorman Rep. at 38; Singh Rep. at 66; Wolf Rep. at 16.

Moorman Rep. at 38.

Singh Rep. at 66.

Moorman Rep. at 38; Singh Rep. at 66; Smith-Bindman Rep. at 41.

Moorman Rep. at 38.

talc is not fibrous, and she further essentially concedes that the talc-ovarian cancer evidence is "weak[]" in making the unsupported claim that "weaker evidence" should suffice to prove causation when there is an appropriate analogy. <sup>181</sup> In short, analogy has not been established.

## I. The Evidence For A Biological Mechanism By Which Talc Could Cause Cancer Is Weak.

Plaintiffs' experts generally propose that talc or alleged other constituents in talcum powder (e.g., asbestos, heavy metals or fragrance chemicals) can travel from the perineum up the genital tract to the ovaries – against gravity and the downward flow of vaginal mucous and menstrual fluids. They also suggest an alternative pathway, via inhalation and the lymphatic system. These proposed mechanisms are speculative and unsupported by science.

1. <u>Studies Have Repeatedly Stated That Scientific Evidence Is Insufficient To Show Mechanisms Of Talc-Based Ovarian Carcinogenesis.</u>

As an initial matter, based on my review of the available epidemiologic literature, many authors of studies have made clear that the evidence is insufficient to understand any purported mechanism by which talc-based cosmetic powders could cause ovarian cancer. For example:

Penninkilampi (2018)<sup>184</sup>

"[T]he potential mechanism by which genital talc is associated with an increased risk of ovarian cancer hence remains unclear."

"[U]nfortunately, the evidence remains insufficient to understand the mechanisms with any reasonable certainty."

"[T]here is a substantial need for further research on a potential mechanism."

Berge (2018)<sup>185</sup>

"[T]he biological basis and plausibility of a possible carcinogenic effect of talc on the ovaries is still not understood and remains questionable."

Smith-Bindman Rep. at 41.

Carson Rep. at 8; Kane Rep. at 4, 14; McTiernan Rep. at 8, 58-59, 66; Moorman Rep. at 32-33; Plunkett Rep. at 27-38; Singh Rep. at 18-19, 57; Singh Dep. 212:6-18; Smith-Bindman Rep. at 35; Zelikoff Rep. at 12-14.

Carson Rep. at 8; Kane Rep. at 14; McTiernan Rep. at 58-59, 66; Moorman Rep. at 33; Plunkett Rep. at 27-28; Singh Rep. at 18-19, 57-58; Wolf Rep. at 11, 15; Zelikoff Rep. at 14-17.

Penninkilampi 2018 at 11-12, 14.

Berge 2018 at 255.

#### Cramer (2016)<sup>186</sup>

"[U]nfortunately, no epidemiologic study of epithelial ovarian cancer and talc has taken the opportunity to determine whether talc can actually be found in tissues removed at surgery and correlated with exposure to talc."

#### Terry (2013)<sup>187</sup>

"[T]he biological plausibility for the observed association between genital powder use and ovarian cancer has been challenged because evidence for dose-response has been inconsistent."

"[L]ittle is known about the biologic effects of genital powder use."

"[M]ore work is needed to understand how genital powders may exert a carcinogenic effect, and which constituents (e.g., talc) may be involved."

#### Gates (2008)<sup>188</sup>

"The association remains controversial due to the lack of a clear dose-response with increasing frequency or duration of talc use, the possibility of confounding or other biases, and the uncertain biological mechanism."

#### Merritt (2008)<sup>189</sup>

"[T]hese results in combination with previous studies suggest that chronic inflammation is unlikely to play a major role in the development of ovarian cancer."

#### Mills (2004)<sup>190</sup>

"[R]esearch has provided little biologic or experimental evidence to support a relationship between talcum powder use and ovarian cancer risk."

### Whittemore (1988)<sup>191</sup>

"While these findings indicate that vaginal exposure to particulates can lead to deposition on the ovaries, they do not implicate such exposure in ovarian carcinogenesis, and data relating directly to this possibility are needed."

186	Cramer 2016 at 344.
187	Terry 2013 at 819-20.
188	Gates 2008 at 2437.
189	Merritt 2008 at 174.
190	Mills 2004 at 464.
191	Whittemore 1988.

As these excerpts make clear, plaintiffs' experts' suggestion that biological plausibility is "accepted widely" based on "robust data" is simply false. 192

## 2. <u>Scientific Study Does Not Support The Inhalation Or Migration Theories</u> <u>By Which Talc Is Supposed To Reach The Ovaries.</u>

Scientific data also fail to demonstrate a plausible mechanism by which talc or accessory particles could physically reach the ovaries from external use.

Plaintiffs' experts principally suggest that talc and asbestos particles can travel from the perineum up the genital tract to the ovaries – against gravity and the downward flow of vaginal mucous and menstrual fluids. The results of research addressing retrograde transport have been inconclusive. For example, one study examining the amount of talc in the ovaries of women who had undergone surgery for benign ovarian neoplasms found no correlation between the women's talc use and their talc particle counts. Another study reviewed pathology slides from 213 ovarian tumors and found definite silicate crystals in only five patients, which may have reflected talc contamination from surgical gloves. And as noted by IARC, while some studies of potential retrograde movement of particles in women who were about to undergo gynecological surgery for diseases or complications of the reproductive tract or organs have suggested that such transport is possible, "broad interpretations with regard to healthy women" based on these studies "may be limited." Thus, IARC reported that, "[o]n balance, the Working Group believed that the evidence for retrograde transport of talc to the ovaries in normal women is weak."

Relatedly, while plaintiffs' experts point out that talc particles and asbestos fibers have been found in ovarian tissue, this fact is of no scientific significance because researchers have found such particles in the ovaries of women with and without perineal talc use or other known exposures to talc or asbestos. The Heller (1996) study found that "talc particles were observed to a similar extent with both exposed and unexposed subjects" and that particles were actually found in higher proportions among women who did not apply talc on the perineum, stating that "our results do not support a linear dose-related ovarian talc particle burden." As this research

Blair Smith Rep. at 20; Moorman Rep. at 32; Singh Rep. at 65.

<sup>&</sup>lt;sup>193</sup> Singh Dep. 212:6-18, 215:7 ("talc can migrate upwards").

<sup>194</sup> IARC Talc Monographs at 392.

<sup>&</sup>lt;sup>195</sup> Heller 1996.

Yaker A, Benirschke K. A ten year study of ovarian tumors. Virchows Arch A Pathol Anat Histol. 1975; 366(4):275-86.

<sup>&</sup>lt;sup>197</sup> IARC Talc Monographs at 392.

<sup>&</sup>lt;sup>198</sup> *Id.* at 411.

Heller 1996 at 1508, 1510; Heller DS, Gordon RE, Westhoff C, Gerber S. Asbestos exposure and ovarian fiber burden. Am J Ind Med. 1996;2 9(5):435-439 (noting that asbestos fibers were found in ovarian tissue of women with and without history of exposure).

Heller 1996 at 1508, 1510.

indicates, the presence of fibers in ovarian tissue does not establish the relevant exposure pathways.

Studies have also failed to show an association between use of talc-dusted diaphragms and condoms and ovarian cancer. Evaluating an association with the use of talc-dusted diaphragms and condoms has been deemed "the most valid method for testing the carcinogenic potential of talc" because "[b]y definition, the female reproductive tract is exposed to talc containing powders introduced by diaphragms, whereas an exposure route based on perineal dusting requires unproven assumptions about vaginal exposure." 202

Moreover, numerous studies have considered whether tubal ligation and hysterectomy – procedures that "block the environmental contamination of the ovaries" – are associated with a decreased risk of ovarian cancer generally, while others have looked at this question in perineal talc users specifically. Although plaintiffs' experts assert that these studies "strongly suggest that the increased risk of ovarian cancer associated with talcum powder products use is reduced or eliminated after tubal ligation or hysterectomy," my review of the available literature reveals that the results have been inconsistent. In fact, the only cohort study to address this issue concluded that "no effect modification was seen by history of tubal ligation." And a pooled analysis of case-control studies observed similar associations for talc use in women with tubal ligation or hysterectomy regardless of whether the "exposure to genital powder applications" occurred before or after the surgery. Several case-control studies have found a lower incidence of ovarian cancer in patients who had tubal ligation but a higher incidence in patients who had hysterectomies, which is a puzzling result since both hysterectomy and tubal ligation should cut off the pathway through which talc could travel to the ovaries. Because tubal ligation and hysterectomy would prevent the migration of talc particles from the perineum, the

Hartge 1983; Fiume 2015 at 122S ("[S]tudies demonstrating that the use of talc-dusted condoms or diaphragms, which would clearly result in exposure close to the cervical opening, [have found that talc] was generally not associated with increased RR estimates for ovarian cancer."); Muscat & Huncharek 2008 at 5-6 (describing meta-analyses showing no association between use of talc-dusted diaphragms and condoms and ovarian cancer); Penninkilampi 2018 at 42, 44 ("Talc use on diaphragms or on sanitary napkins was not individually associated with increased risk of ovarian cancer.") .

Muscat & Huncharek 2008 at 5, 9 ("It may be argued that the overall null findings associated with talcdusted diaphragms and condom use is more convincing evidence for a lack of a carcinogenic effect, especially given the lack of an established correlation between perineal dusting frequency and ovarian tissue talc concentrations and the lack of a consistent dose-response relationship with ovarian cancer risk.").

<sup>&</sup>lt;sup>203</sup> *Id.* at 7.

Smith-Bindman Rep. at 35.

Muscat & Huncharek 2008 at 7; Singh Rep. at 23 (admitting that the Terry pooled study found that "[a]fter excluding those with tubal ligation and hysterectomy, the results were similar. Restricting analysis to application before tubal ligation made no substantive difference.").

<sup>&</sup>lt;sup>206</sup> Gertig 2000 at 251.

<sup>&</sup>lt;sup>207</sup> Terry 2013 at 817.

Mills 2004 (finding odds ratios of 0.88 and 1.54 for tubal ligation/no tubal ligation and odds ratios of 1.79 and 1.33 for hysterectomy/no hysterectomy); Cramer 1999 at 352 (odds ratios of 0.98 and 1.80 for tubal ligation/no tubal ligation and 2.61 and 1.60 for hysterectomy/no hysterectomy).

fact that studies have not consistently shown a reduced risk associated with these surgeries undermines the premise that talc particles travel to the ovaries and cause cancer.

Finally, some of plaintiffs' experts espouse a theory that talc or accessory particles can reach the ovaries via inhalation (i.e., that women who use cosmetic talc inhale some amount of talc particles while they are applying cosmetic talc). But I have not seen a mechanistic study that demonstrates that inhaled talc particles can reach the ovaries, and plaintiffs' experts concede there is not sufficient evidence pertaining to inhalation of talcum powder. Furthermore, while most of the epidemiologic studies did not examine non-perineal application of talcum powder, those that assessed application to other body parts found inconsistent results. For example, although Penninkilampi found a small elevation in risk with "any non-perineal" talc use [1.24(1.01-1.51), this finding was limited by finding significant heterogeneity across the studies. In the Terry pooled analysis of more than 18,000 women, non-perineal application showed no risk [0.98(0.89-1.07)]. Likewise, the recent study by Cramer (2016) showed no association of body use of powder with ovarian cancer [0.99[0.84-1.16].

## 3. The Theory That Talc Can Cause Inflammation That Promotes Cancer Lacks Scientific Support.

The theory asserted by several of plaintiffs' experts that talc particles that reach the ovaries can cause inflammation leading to cancer (the "inflammation theory") also lacks support. <sup>211</sup>

First and foremost, no biological mechanism theory accounts for the fact that talc is not mutagenic or genotoxic. This fact significantly undermines the theory that talc causes ovarian cancer, since gene mutation is widely recognized as what triggers ovarian cancer. And Dr. Singh's assertion – without citation – that "[t]alc has also been shown to be mutagenic" is simply incorrect, as is Dr. McTiernan's similar assertion that talc can cause genotoxicity. In

McTiernan Rep. at 66; Siemiatycki Rep. at 65; Moorman Rep. at 33; Singh Rep. at 19, 57-58.

Moorman Dep. 303:17-304:15 (stating there is not sufficient evidence to conclude that inhaled talcum powder causes ovarian cancer because there are not "epidemiologic studies that have actually looked at inhaled talcum powder in relation to ovarian cancer"); Singh Dep. 216:14-19 (agreeing that "studies of talcum powder use failed to show a statistically significant association between nongenital use of talcum powder and ovarian cancer").

Smith-Bindman Rep. at 12; McTiernan Rep. at 8; Siemiatycki Rep. at 65; Moorman Rep. at 33-34; Singh Rep. at 19.

Muscat & Huncharek 2008 at 9 (citing Endo-Capron S, Renier A, Janson X, et al. In vitro response of rat pleural mesothelial cells to talc samples in genotoxicity assays (sister chromatid exchanges and DNA repair). Toxicol In Vitro. 1993; 7(1):7-14); IARC Talc Monographs at 399.

Mayo Clinic, Cancer (Dec. 12, 2018), https://www.mayoclinic.org/diseases-conditions/cancer/symptoms-causes/syc-20370588; Anand P, Kunnumakkara AB, Sundaram C, et al. Cancer is a preventable disease that requires major lifestyle changes. Pharm Res. 2008; 25(9):2097-2116, 2098 (noting that "all cancers are a result of multiple mutations").

Singh Rep. at 19.

McTiernan Rep. at 67.

this vein, animal studies (including studies directly injecting talc into the ovaries of rats) have not shown that prolonged exposure to talc causes ovarian cancer or precancerous changes in ovarian cells. Likewise, in vitro and pathological studies have not shown evidence of talc-induced ovarian cancer. <sup>217</sup>

The inflammation theory is also unsupported and implausible. A recent study sought to determine whether histological signs of inflammation were associated with ovarian cancer and found "no significant correlation . . . between serous carcinoma and histological signs of inflammation or chronic tubal injury." Studies have not established a causal association between the use of cosmetic talc and cancers in vaginal, uterine and cervical tissue. If talc (or alleged asbestos in talc products) produced inflammatory responses or carcinogenesis in ovarian tissue, it might also produce the same in other tissue. These tissues are closer to the perineum than the ovaries and likely are exposed to greater concentrations of talc than the ovaries.

The lack of evidence showing a reduced risk associated with the use of anti-inflammatory drugs further undermines the inflammation theory. Most meta-analyses examining this issue have found no risk reduction with either aspirin or NSAID use.<sup>220</sup> One did report a modest risk reduction for aspirin use but found no such reduction for non-steroidal anti-inflammatory drug ("NSAID") use.<sup>221</sup> The meta-analysis concluded that "[f]urther biological and pharmacological

Muscat & Huncharek 2008 at 9 (lifetime whole body exposure experiments in female laboratory rats found that ovarian tissue was not contaminated with talc and that ovarian tumor incidence was not increased) (citing Boorman GA, Seely JC. The lack of an ovarian effect of lifetime talc exposure in F344/N rats and B6C3F1 mice. Regul Toxicol Pharmacol. 1995; 21(2):242-243); Hamilton TC, Fox H, Buckley CH, et al. Effects of talc on the rat ovary. Br J Exp Pathol. 1984; 65(1):101-106 (study exposing rat ovaries to talc finding that the "epithelium covering the papillae was regular with no evidence of cytoplasmic or nuclear atypia"; there was no "evidence of frank neoplasia"; and that observed inflammation was not near the papillae).

Muscat & Huncharek 2008 at 9; IARC Talc Monographs at 397-98; Lee P, Sun L, Lim CK, et al. Selective apoptosis of lung cancer cells with talc. Eur Respir J. 2010; 35(2):450-452, 452; Nasreen N, Mohammed KA, Brown S, et al. Talc mediates angiostasis in malignant pleural effusions via endostatin induction. Eur Respir J. 2007; 29(4):761-769, 761-762 (in vitro studies reporting that talc stops new blood vessels from forming and causes cell death only in malignant cells, leaving healthy cells alone).

Malmberg K, Klynning C, Flöter-Rådestad A, Carlson JW. Serous tubal intraepithelial carcinoma, chronic fallopian tube injury, and serous carcinoma development. Virchows Arch. 2016; 468(6):707-713.

<sup>&</sup>lt;sup>219</sup> Singh Dep. 209:9-16.

Bonovas S, Filioussi K, Sitaras NM. Do nonsteroidal anti-inflammatory drugs affect the risk of developing ovarian cancer? A meta-analysis. Br J Clin Pharmacol. 2005; 60(2):194-203 (RR 0.93 (95% CI: 0.81-1.06) for aspirin use; RR 0.88 (95% CI: 0.76-1.01) for NSAID use); Ni X, Ma J, Zhao Y, et al. Meta-analysis on the association between non-steroidal anti-inflammatory drug use and ovarian cancer. Br J Clin Pharmacol. 2013; 75(1):26-35 (RR 0.94 (95% CI: 0.87-1.01) for aspirin use; RR 0.89 (95% CI: 0.74-1.08) for NSAID use); Baandrup L, Faber MT, Christensen J, et al. Nonsteroidal anti-inflammatory drugs and risk of ovarian cancer: systematic review and meta-analysis of observational studies. Acta Obstet Gynecol Scand. 2013; 92(3):245-255 (RR 0.93 (95% CI: 0.84-1.02) for aspirin use; RR 0.94 (95% CI: 0.84-1.06) for NSAID use).

Trabert B, Ness RB, Lo-Ciganic WH, et al. Aspirin, nonaspirin nonsteroidal anti-inflammatory drug, and acetaminophen use and risk of invasive epithelial ovarian cancer: a pooled analysis in the Ovarian Cancer Association Consortium. J Natl Cancer Inst. 2014; 106(2):djt431, 5 (2014) (for aspirin, OR 0.91 (95% CI: 0.84-0.99); for NSAIDs, OR 0.90 (95% CI: 0.77-1.05)).

research is necessary to understand the mechanisms of ovarian cancer risk reduction by aspirin use." The authors reported the results of further study just this year, continuing to find a modest decrease in risk with daily aspirin use but not with other types of anti-inflammatories, and further contradicting the inflammation theory, "observ[ing] a consistently elevated ovarian cancer risk with frequent, long-duration use of aspirin and nonaspirin NSAIDs. Moreover, the Wu 2009 study – on which plaintiffs' experts have relied on the issue of dose-response – likewise found the opposite effect, reporting that, "contrary to the study hypothesis that NSAIDs may have chemopreventative effects by decreasing inflammation, we found that the risk of ovarian cancer *increased* significantly with increasing frequency and duration of NSAIDs use." And Merritt (2008) additionally found risk reduction with the use of anti-inflammatories, concluding that "on balance, chronic inflammation does not play a major role in the development of ovarian cancer." In sum, and as plaintiffs' experts agree, studies of the effect of anti-inflammatory drugs on ovarian cancer are mixed at best, and some even show the reverse relationship – i.e., increased incidence of ovarian cancer with increased use of NSAIDs.

Finally, "inflammation" is a broad term and does not inevitably lead to cancer. For example, pollen can lead to increased inflammation in the asthmatic lung, but it does not cause cancer. Thus, even if one finds inflammation in tissue, that does not mean that cancer inevitably or even likely follows from that. And if talc in fact caused cancer by causing inflammation, it would surely do so in patients who undergo pleurodesis (which entails the therapeutic injection of talc into the pleural cavity to cause beneficial scarring). Yet, there is no evidence that pleurodesis patients subsequently develop cancer as a result of the procedure. Plaintiffs' expert Dr. Ghassan Saed has performed experiments – apparently for litigation purposes<sup>227</sup> – to attempt to establish an inflammation-based mechanism by which talc could cause ovarian cancer. While I leave a detailed assessment of Dr. Saed's efforts to other experts, I did review Dr. Saed's report and his two depositions and was struck by the irregularities in his study, which render his results highly questionable. I also read the highly skeptical comments from the reviewers at *Gynecologic Oncology*, which rejected his manuscript. But even accepting the results of Dr. Saed's study, they at best raise questions about the inflammation hypothesis that would have to be addressed through future *in vitro* and *in vivo* testing, as he effectively acknowledged at his

<sup>&</sup>lt;sup>222</sup> *Id*.

Trabert B, Poole EM, White E, et al. Analgesic Use and Ovarian Cancer Risk: An Analysis in the Ovarian Cancer Cohort Consortium, J. Nat'l Cancer Inst. 2019; 111(2):137-145, 139-142 (emphasis added).

Wu 2009 (emphasis added).

<sup>&</sup>lt;sup>225</sup> Merritt 2008.

Singh Dep. 231:23-233:2 ("[NSAIDs] don't consistently reduce the risk of ovarian cancer"); Kane Rep. at 9-13 ("[S]ome studies show[] a protective effect of anti-inflammatory drugs on the risk of developing carcinoma, although some studies have failed to show a protective effect."); Blair Smith Rep. at 17-18 (describing studies that "looked at the effects of aspirin and nonsteroidal anti-inflammatory drugs (NSAIDs) on the risk of developing cancer" as "inconsistent").

Saed Dep. Vol. I 62:16-63:7, 72:10-73:2, 178:14-21.

Gynecologic Oncology Email dated Sept. 19, 2018 re: GYN-18-1020: Final Decision.

deposition.<sup>229</sup>

## VII. THE ASBESTOS LITERATURE DOES NOT SUPPORT THE THEORY THAT ASBESTOS ALLEGED TO BE IN COSMETIC TALC COULD CAUSE OVARIAN CANCER.

There are numerous problems with plaintiffs' experts' theory that asbestos is an accessory mineral present in cosmetic talc that causes ovarian cancer.

First, all of the problems addressed above with respect to plaintiffs' theories by which particulates in talcum powder could migrate to the ovaries would apply to asbestos fibers. And plaintiffs' experts' inhalation theories are all the more infirm with respect to asbestos particularly. Assuming talc contained asbestos, the larger burden of any inhaled asbestos should be seen in the lungs, which are directly exposed, rather than the ovaries, which would only be indirectly exposed, if at all. If that is the case, as Dr. Moorman testified, we should be seeing an epidemic of mesothelioma and lung cancer cases among cosmetic talc users. <sup>230</sup> But no expert has identified any studies showing that mesothelioma or lung cancer is a risk of talc use, and I am not aware of any such studies. To the contrary, studies that have looked at talc miners and millers – who would presumably confront greater exposures to asbestos if it were present in talc given the occupational context – have not found any increased incidence of mesothelioma or lung cancer attributable to talc exposure in the mines or mills.<sup>231</sup> Notably, IARC emphasized this point, stating that there was "little or inconsistent evidence of an increased risk of cancer in the studies of workers occupationally exposed to talc," where the potential for talc inhalation would be particularly significant, and that "studies of talc miners and millers were considered to provide the best source of evidence."<sup>232</sup> And the body of literature investigating perineal talc use has focused on ovarian cancer, and not mesothelioma or lung cancer, which indicates that researchers have not even considered them worth investigating.

In addition to the lack of a plausible mechanism by which asbestos could reach the ovaries, there is also a lack of any reliable epidemiology supporting such a causal connection. There have been relatively few studies examining the association between asbestos exposure and

<sup>&</sup>lt;sup>229</sup> Saed Dep. Vol. II 542:16-25.

Moorman Dep. 112:7-15 ("Q. You would agree with me that if talcum powder, that is used in cosmetic talc products, is, in fact, contaminated with asbestos, then you would expect to see increased cancer incidence rates, for example, of mesothelioma, in cosmetic talc miners and millers; correct? . . . . [A] I wouldn't be surprised to see that, yes.").

Fiume 2015 at 119S (studies looking at occupational inhalational talc exposure do not show an increased risk of lung disease); Pira PE, Coggiola M, Ciocan C, et al. Mortality of Talc Miners and Millers from Val Chisone, Northern Italy: An Updated Cohort Study. J Occup Environ Med. 2017; 59(7):659-664 (concluding that there was a lack of association between exposure to asbestos-free talc, lung cancer, and mesothelioma in a cohort of talc miners and millers from Val Chisone, Italy); Wergeland E, Andersen A, Baerheim A. Morbidity and mortality in talc-exposed workers. Am J Ind Med. 1990; 17(4):505-513 (finding no elevated incidence of lung cancer or mesothelioma in a cohort or 94 talc miners and 295 talc millers).

IARC Talc Monographs at 412.

ovarian cancer. <sup>233</sup> Of the studies that have reported a statistically significant association between asbestos exposure and ovarian cancer, all looked at populations heavily exposed to asbestos in the workplace. <sup>234</sup> As noted by the authors of a 2011 meta-analysis that included most of this research, studies examining the asbestos-ovarian cancer association have been "limited," in part due to a "[s]mall number of cases" – i.e., "[m]uch fewer women than men have been exposed to asbestos, particularly in [the] more heavily exposed occupational settings" that have predominantly been examined. <sup>235</sup> Although some of these studies show a statistically significant elevated risk, others do not, and the overall results are highly inconsistent. <sup>236</sup> Moreover, the meta-analysis calculated an overall standardized mortality ratio ("SMR") of 1.75 across 16 studies, which is not even a doubling of risk. <sup>237</sup> The SMR in these studies ranged from 0.79 in a study of Polish women diagnosed with asbestosis (in which there was only one case of ovarian cancer across 490 exposed women) to 4.77 in a study of Italian women compensated for asbestosis (nine cases of ovarian cancer in 631 exposed women). <sup>238</sup> Ten of the 16 studies reported SMRs lower than 2.0, none of them statistically significant.

International Agency for Research on Cancer, Monographs on the Evaluation of Carcinogenic Risks to Humans Vol. 100C: Asbestos (Chrysotile, Amosite, Crocidolite, Tremolite, Actinolite, and Anthophyllite) 253 (2012) ("IARC Asbestos Monographs") (observing that "the published literature examining the association between asbestos exposure and cancer of the ovaries is relatively sparse").

Acheson ED, Gardner MJ, Pippard EC, Grime LP. Mortality of two groups of women who manufactured gas masks from chrysotile and crocidolite asbestos: a 40-year follow-up. Br J Ind Med. 1982; 39(4):344-348 (for gas mask workers exposed to crocidolite, SMR 2.75 (95% CI: 1.42-4.81)); Berry G, Newhouse ML, Wagner JC. Mortality from all cancers of asbestos factory workers in east London 1933-80. Occup Environ Med. 2000; 57(11):782-785 (for insulation workers, SMR 2.53 (95% CI: 1.16-4.80)); Camargo MC, Stayner LT, Straif K. Occupational exposure to asbestos and ovarian cancer: a meta-analysis. Environ Health Perspect. 2011; 119(9):1211-1217, 1216 ("Camargo 2011") (meta-analysis "restricted to highly exposed women" reporting "findings . . . consistent with the hypothesis that exposure to asbestos is associated with an increased risk of ovarian cancer"); Germani D, Belli S, Bruno C, et al. Cohort mortality study of women compensated for asbestosis in Italy. Am J Ind Med. 1999; 36(1):129-134 ("Germani 1999") (for cement works, SMR 5.40 (95% CI: 1.75-12.61); for textile works, SMR 5.26 (95% CI: 1.43-13.47); for all workers, SMR 4.77 (95% CI: 2.18-9.06)); IARC Asbestos Monographs at 256 (concluding that there is a causal association based "on five strongly positive cohort mortality studies of women with *heavy occupational exposure* to asbestos") (emphasis added); Magnani C, Ferrante D, Barone-Adesi F, et al. Cancer risk after cessation of asbestos exposure: a cohort study of Italian asbestos cement workers, Occup Environ Med. 2008; 65(3):164-170 (for cement factory workers, SMR 2.27 (95% CI: 1.04-4.32)); Wignall BK, Fox AJ. Mortality of female gas mask assemblers. Br J Ind Med. 1982; 39(1):34-38. ("Wignall & Fox 1982") (for gas mask workers, SMR 2.13).

Reid A, de Klerk N, Musk AW. Does exposure to asbestos cause ovarian cancer? A systematic literature review and meta-analysis. Cancer Epidemiol Biomarkers Prev. 2011; 20(7):1287-129, 1287 ("Reid 2011").

See id. ("The relationship between asbestos exposure and ovarian cancer is not as well understood."); see also id. at 1293 fig. 1 (chart showing the 16 studies, 12 of which did not report statistically significant results); id. at 1294 ("The present study has shown that 4 of 14 cohort studies reported a statistically significant excess rate for ovarian cancer among women exposed to asbestos. Of the remaining 10 studies, 5 reported a tendency to excess but failed to reach statistical significance and 5 reported rates that were similar to those of their reference populations. Strong evidence of consistency was not observed among these studies, although no study reported any protective effect."); IARC Asbestos Monographs at 254-56 (describing cohort studies and case-control studies).

<sup>&</sup>lt;sup>237</sup> Reid 2011 at 1287 (abstract).

<sup>238</sup> *Id.* at 1289.

<sup>239</sup> *Id.* at 1289-90.

Addressing this body of research, the authors of the 2011 meta-analysis noted above acknowledged an IARC Working Group's recent conclusion that a causal association between asbestos exposure and ovarian cancer had been established, 240 but criticized that conclusion as "premature and not wholly supported by the evidence." The authors also emphasized that "[s]trong evidence of consistency was not observed among these studies, 242 pointing out that "no significant excess risk was reported among those studies that examined the incidence of ovarian cancer where cases were ascertained from a cancer registry" as opposed to from death certificates, which is significant because there is evidence of misclassification in death certificates. The authors also noted that many studies involved too few women to address dose-response. With respect to the studies that did address dose-response, the findings "were inconsistent"; no study showed a "statistically significant trend of ovarian cancer with degree of asbestos exposure"; and "there was no evidence of a significant trend across studies as grouped exposure increased. In light of these conclusions, I find it puzzling that some of plaintiffs' experts claim reliance on this meta-analysis for the conclusion that "[a]sbestos has been established as a cause of . . . epithelial ovarian cancer."

In addition, no study has found that asbestos exposure comparable to that allegedly sustained by women who use cosmetic talc causes an increased risk of ovarian cancer. Specifically, the occupational studies described above include workers who worked with raw asbestos as part of their job for months or years at a time. And as Dr. Moorman testified, the level of exposure is qualitatively different in the occupational context from the exposure to the genital areas alleged by plaintiffs. I am not aware of any study showing that the use of cosmetic talc would result in asbestos exposures comparable to occupational asbestos exposure even if the cosmetic talc contained trace amounts of asbestos, as claimed by plaintiffs' experts. Thus, the results of occupational studies cannot be reliably extrapolated to exposure scenarios such as cosmetic talc use.

The results of the occupational asbestos studies also cannot be used to support causation of ovarian cancer in cosmetic talc users because the studies have predominantly examined exposure to crocidolite asbestos or some combination of crocidolite and chrysotile, and

IARC Asbestos Monographs at 256.

<sup>&</sup>lt;sup>241</sup> Reid 2011 at 1294.

<sup>&</sup>lt;sup>242</sup> *Id*.

<sup>243</sup> *Id.* at 1293-94.

*Id.* at 1294.

<sup>&</sup>lt;sup>245</sup> *Id*.

<sup>&</sup>lt;sup>246</sup> McTiernan Rep. at 57; McTiernan Dep. 268:21-25; Moorman Dep. 108:6-109:10, 111:7-14.

Germani 1999 at 129 ("Subjects included in this cohort were certainly exposed to high levels of asbestos."); Wignall & Fox 1982 at 35 (subjects were "directly exposed to asbestos dust," and "by the end of the working day they were covered in fluff from the pads" they worked on).

<sup>&</sup>lt;sup>248</sup> Moorman Dep. 106:4-17.

crocidolite is regarded as the most potent form of asbestos.<sup>249</sup> I note that studies examining the composition of talc-based body powders have not observed crocidolite fibers.<sup>250</sup>

Even assuming exposure to asbestos of some variety and in certain exposure scenarios can cause ovarian cancer, no science supports the notion – put forth by a number of plaintiffs' experts – that "any exposure" to asbestos can cause ovarian cancer. To the contrary, as suggested by the discussion of occupational studies above, the available data suggest that very significant exposure would be necessary. This conclusion is strongly supported by the fact that the few studies that have looked at environmental asbestos exposure (in women living in an asbestos mining town and family members of male asbestos factory workers) rather than occupational exposure do not show a statistically significant increased rate of ovarian cancer or increased mortality from ovarian cancer. For example, in one study of women who lived near or worked in a crocidolite mine and who had cumulative exposures of up to 40 fiber/cc-years, there was no increased risk of ovarian cancer. Even these studies are not perfectly analogous to the asbestos exposure alleged through perineal use of cosmetic talc. But they underscore the fact that not every circumstance where there is asbestos exposure, even crocidolite exposure, leads to elevated ovarian cancer risk.

Finally, I note that studies addressing whether there is an association between asbestos and ovarian cancer have cautioned that to the extent there is an observed association, it may be inflated by the misclassification of other diseases such as mesothelioma as ovarian cancer on subjects' death certificates. As these studies have explained, it has only recently become

Reid 2011 at 1291 (noting that crocidolite is "the most mesotheliogenic of the asbestos fibers"); IARC Asbestos Monographs at 242 (discussing studies finding no excess mortality for cancer of the pharynx in amosite asbestos miners but an excess mortality rate for crocidolite miners and a higher risk rate for factory workers exposed to crocidolite than workers exposed to chrysotile); *id.* at 254-55 (relying on studies that involved crocidolite and, in some cases also chrysotile).

<sup>&</sup>lt;sup>250</sup> IARC Talc Monographs at 303-05.

E.g., Moorman Dep. 75:22-76:3.

Reid A, Heyworth J, de Klerk NH, Musk B. Cancer Incidence Among Women and Girls Environmentally and Occupationally Exposed to Blue Asbestos at Wittenoom, Western Australia. Int J Cancer. 2008; 122(10):2337-2344 (study of 2,552 women living in an asbestos mining town in Australia (reporting a "minimum estimate" standard incidence ratio ("SIR") of 1.11 (95% CI 0.39-1.84) and "maximum estimate" SIR of 1.43 (95% CI 0.50-2.37), depending on the method used to determine when to stop following women in the study; a standard incidence ratio reports the ratio of the number of cases of cancer found in the studied population relative to the expected number of such cases as derived from broader population statistics rather than a control group, and a standard mortality ratio ("SMR") employs a similar comparison but focuses on rates of death rather than incidence of disease); Reid A, Segal A, Heyworth JS, et al. Gynecologic and breast cancers in women after exposure to blue asbestos at Wittenoom. Cancer Epidemiol Biomarkers Prev. 2009; 18(1):140-147 ("Reid 2009") (analysis of ovarian cancer incidence in the same population (SIR 1.18 (95% CI: 0.45-1.91))); Ferrante D, Bertolotti M, Todesco A, et al. Cancer mortality and incidence of mesothelioma in a cohort of wives of asbestos workers in Casale Monferrato, Italy. Environ Health Perspect. 2007; 115(10):1401-1405 (study of family members of men employed at an asbestos-cement factory in Italy (SMR 1.42 (95% CI: 0.71-2.54))).

<sup>&</sup>lt;sup>253</sup> Reid 2009.

Reid 2011 at 1287 (explaining that many studies ascertained mortality from death certificates, "[t]he accuracy of [which] has been questioned repeatedly"; observing that it has been "particularly difficult to distinguish

technologically possible to reliably "distinguish pathologically between peritoneal mesothelioma and ovarian cancer."<sup>255</sup> As the authors of one meta-analysis explained, even a low number of misclassification errors can drastically affect reported mortality rates given the limited number of ovarian cancer cases in the studies.<sup>256</sup> Notably, the authors of that meta-analysis did not find a statistically significant ovarian cancer incidence when looking only at studies that obtained ovarian cancer diagnoses from cancer registries rather than death certificates.<sup>257</sup>

#### VIII. HEALTH CANADA AND THE ANALYSIS BY MOHAMED TAHER

I understand that plaintiffs' experts have begun relying on the recent draft screening assessment of talc by Health Canada<sup>258</sup> and the related analysis by Mohamed Taher<sup>259</sup> and others. I have reviewed these documents, and they are consistent with the opinions I set forth above and do not support a conclusion that talc causes ovarian cancer.

The Health Canada ("HC") assessment raises a number of new issues that if anything further cloud the scientific picture and erect further obstacles to a conclusion that perineal talcum powder use causes ovarian cancer. For example, the document highlights other sources of exposure to talc. Specifically, it states that "a potential concern for human health has been identified" for perineal exposure to talc "from use of various self-care products (e.g., body powder, baby powder, diaper and rash creams, genital antiperspirants and deodorants, body wipes, bath bombs)." The document further notes that talc is present in approximately 8,500 self-care products, in addition to being found as a food additive, in medications, and many other consumer and commercial products. <sup>261</sup>

In other respects, the HC assessment largely covers old ground. Indeed, as part of the overall assessment, there was a health effects assessment that relied on the work of other

between peritoneal mesothelioma and ovarian serous carcinoma"). Notably, this meta-analysis found that "no significant excess risk was reported among those studies that examined the incidence of ovarian cancer where cases [were] ascertained from a cancer registry." *Id.* at 1294.

- Camargo 2011 at 1216; *see id.* at 1215 (observing that earlier meta-analyses concluded that they could not conclude causality despite evidence of an association because of concerns about tumor misclassification and failure to account for known risk factors).
- Reid 2011 at 1294 ("Where disease outcome was identified from the cause of death as listed on the death certificate, given the small numbers of ovarian cancer cases in each study, even misclassification of 1 cancer may exert a large impact on the exposure effect.").
- Id. ("The meta-analysis of those studies that examined ovarian cancer as determined on the death certificate reported an excess risk. In contrast, no significant excess risk was reported among those studies that examined the incidence of ovarian cancer where cases [were] ascertained from a cancer registry.").
- See Health Canada, Draft screening assessment talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>), Chemical Abstracts Service Registry Number 14807-96-6, https://www.canada.ca/content/dam/eccc/documents/pdf/pded/talc/Draft-screening-assessment-talc.pdf ("HC Assessment").
- <sup>259</sup> Taher 2018.
- See HC Assessment at iii.
- See id. at 6.

agencies (e.g., IARC and the United States Environmental Protection Agency) and a literature search. With regard to perineal exposure to talc, the HC assessment cites IARC's Group 2B classification (possibly carcinogenic to humans), and the CIR Expert Panel (2013) that "determined that there is no causative relationship between cosmetic use of talc in the perineal area and ovarian cancer[.]" The assessment notes that rodents are poor experimental models for perineal studies and that "animal data are very limited." In terms of human studies, it cites several meta-analyses, including those cited by plaintiffs' experts, as well a newer unpublished manuscript by Taher (2018). 264

In a discussion of mode of action, the HC assessment states that "the etiology of most ovarian tumors, in general, has not been well established." While it notes that talc particles instilled into the uterus or to a lesser extent the vagina can be found in the ovaries of rats, no similar translocation occurred in studies of rabbits and monkeys. <sup>266</sup>

The HC assessment found no health effects of ingested talc or dermally applied talc. With regard to inhalation, it cites the Danish EPA (2016) "note that talc is not absorbed via inhalation." It points to potential for retention of talc in the lungs as leading to talc-induced pneumoconiosis or talcosis in certain industrial settings. The assessment considers the NTP rat study of inhalation (1993) of talc with doses as high as 18 mg/m<sup>3</sup>. It cites conclusions of a symposium of experts from the NTP as well as academic, industry and government experts who evaluated the NTP study results and reached a consensus that because the dose was so high, the neoplasms seen were not relevant to human health risk assessment. The lung tumors seen in only female rats were judged to be attributed to the general particle effects of dust, and not specific to talc, and the pheochromocytomas were attributed to tissue hypoxia, and not talc per se. The lung tumors are relevant to talc per se.

The HC assessment also addresses the issue of asbestos, noting that selective mining, ore processing, and benefaction can remove many of the impurities from mined talc, that United States Pharmacopeia ("USP") requires the absence of asbestos, and that cosmetic grade talc should comply with USP standards. Further, "health effect studies on cosmetic-grade talc

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262
          Id. at 15.
263
          Id.
          Id. at 16-17.
265
           Id. at 18.
266
          Id. at 18-19.
          Id. at 11.
268
          Id.
269
          Id. at 12.
270
          Id. at 13.
271
          Id.
272
          Id. at 3.
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cited in this assessment were considered to be free of asbestos."273

At the end of the day, the HC assessment failed to conclude that talc use causes ovarian cancer, <sup>274</sup> and plaintiffs' experts misread the report to the extent they contend that it did. <sup>275</sup>

HC's overall assessment appears to rely heavily on the unpublished meta-analysis by Taher and cites Taher's Bradford Hill analysis extensively. HC's extensive reliance on Taher is unusual and problematic. First, the manuscript has not gone through the peer-review process for publication. There is no way to know, at this point, whether and where it will ultimately be published, but even if it is, there is no assurance that the findings and conclusions will be the same once reviewers and editors have provided feedback. Second, it seems unusual to rely on the Taher paper in that there is no novelty and the studies reviewed in it have been repeatedly evaluated by other authors, whose results have, in fact, been through the peer-review process.

As a rationale for performing the study, Taher et al. cite "increasing concern that perineal exposure to tale, a commonly used personal care product, might be associated with an increased risk of ovarian cancer." Further, they note that "the data describing this association is somewhat inconsistent." Again, it is not clear why another meta-analysis of the same underlying data would be expected to solve past inconsistency.

In reviewing animal studies, Taher et al. note that "data from the animal studies [that] considered various routes of talc administration are inconsistent. . . ."<sup>278</sup> They cite the NTP rat study (1993), findings that HC stated "were not relevant to human health risk assessment" and were not specific to talc.<sup>279</sup> Taher et al. use the NTP study as evidence that, "overall, the avaiable [sic] experimental data suggest irritation, followed by oxidative stress and inflammation, may play be involved [sic] in local carcinogenic effects of talc in the ovaries."<sup>280</sup> Taher et al. note that "data on talc migration in the genital tract of animals is inconsistent, but could not exclude such possibility."<sup>281</sup>

The Hill analysis performed by Taher et al. also has serious flaws. With respect to strength of association, the authors note that 6 of 30 studies showed statistically significant risk

<sup>&</sup>lt;sup>273</sup> Id

Id. at 28 (concluding that talc use is a "potential concern for human health").

<sup>&</sup>lt;sup>275</sup> Moorman Dep. 145:19-21.

<sup>&</sup>lt;sup>276</sup> Taher 2018 at 2.

<sup>277</sup> *Id.* at 3.

<sup>&</sup>lt;sup>278</sup> *Id.* at 22.

HC Assessment at 3.

<sup>&</sup>lt;sup>280</sup> Taher 2018 at 23.

*Id.* at 24.

of 1.5 or greater and that none of the cohort studies found statistically significant associations. <sup>282</sup> While these findings show marked inconsistency, they are not supportive of a strong association.

With regard to consistency, Taher et al. cite 15 of 30 studies with positive, significant associations. Obviously, the same number do not show such an association, which is further evidence against consistency.

As to temporality, Taher et al. state that "the participants recalled that exposure to talc preceded the reported outcome," which ignores the fact that this recall is retrospective rather than prospective.

Regarding biologic gradient, the cited evidence is that 6 of 12 studies showed a significant dose-response trend, which is again evidence of the inconsistency of the study findings, and is in any event wrong given that the cited positive studies included several that did not find a dose response with cumulative use, such as Mills 2004 and Rosenblatt 2011. Moreover, at a later point in the paper, the authors acknowledge that "conflicting findings were reported on the nature of the exposure-response relationship" and that a possible increasing trend is hampered by "a high degree of uncertainty surrounding many of the risk estimates." 286

For experimentation, there are no cited human studies and no tests of animal models of perineal talc and ovarian cancer. The authors again cite the NTP rat study, <sup>287</sup> which remains problematic for the reasons discussed previously.

The analysis of analogy relies on supposed similarities of talc and asbestos and the belief that there are histologic similarities of ovarian cancer and mesothelioma, and that these purported similarities have some bearing on talc causing cancer (even though Taher et al. state that "talc is not genotoxic"). <sup>288</sup>

In the discussion, the authors note subgroup differences they observed by ethnicity, menopausal state, and tubal ligation. But they go on to note that these three subgroup analyses (ethnicity, menopausal state and pelvic surgery) showed considerable heterogeneity that "might have had an impact on the results."

Taher et al. reaffirmed the effect of study design on results, with, once again, positive findings only in population-based case-control studies, but not in those with hospital-based controls [0.96 (0.78-1.17)] or in cohort studies [1.06 (0.9-1.25)]. They also highlighted previously demonstrated paradoxical findings, such as lower risk of cancer with longer use of talc and the "expected, yet non-significant, negative association" with talc applied to diaphragms. While they noted a protective effect of tubal ligation [0.64 (0.45-0.92)], they acknowledged incoherent findings of no significant effect of hysterectomy [0.89 (0.54-1.46)] and a small, non-significant higher risk in women with both tubal ligation and hysterectomy [1.06 (0.78-1.42)].

In the conclusion, the authors state that their evaluation is consistent with that of IARC in 2010 and that it "indicates that perineal exposure to talc powder is a possible cause of ovarian cancer in humans." In other words, eight years later their conclusion is the same – that the evidence shows only that it is possible, not probable, that perineal talc use causes ovarian cancer. Thus, Taher does not add anything new to the body of literature addressed in this report.

#### IX. <u>CONCLUSION</u>

It is my opinion, based on my qualifications and my extensive review of the available epidemiology studies and scientific literature, that there is not sufficient evidence to conclude that there is a causal relationship between perineal talcum powder exposure and ovarian cancer. The epidemiologic literature shows a non-existent association or, at most, a small association between perineal talc use and ovarian cancer that constitutes only weak epidemiologic evidence that can be attributed to bias, confounding or chance. The studies are inconsistent across study designs and within study designs, as cohort and hospital-based case-control studies do not show a statistically significant association and only a subset of the population-based case-control studies demonstrate a statistically significant association. Moreover, the case-control studies do not show any consistent evidence of a dose-response relationship, and there is a complete lack of evidence for dose-response in the cohort studies. The theories pertaining to biological plausibility are entirely speculative and have not been demonstrated in the epidemiology studies or scientific literature; rather, relevant science contradicts the purported theories of talcum powder transport and development of ovarian cancer by inflammation. Finally, the assertion that asbestos present in talc – even if true – causes ovarian cancer is problematic on the grounds that there is a lack of a plausible mechanism by which asbestos could reach the ovaries and also a lack of any reliable epidemiology supporting such a causal connection.

All of the opinions in this report are stated to a reasonable degree of scientific certainty.

<sup>&</sup>lt;sup>290</sup> *Id.* at 32.

<sup>&</sup>lt;sup>291</sup> *Id.* at 33.

<sup>&</sup>lt;sup>292</sup> *Id.* at 49.

## APPENDIX A

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## Appendix A: Sample Of Pre-2014 News Articles Addressing Posited Link Between Talc Use And Ovarian Cancer

- [1] Boston Globe, Study links talc use to ovarian cancer (Aug. 6, 1982)
- [2] New York Times, Talcum company calls study on cancer link inconclusive (August 12, 1982) ("A major talcum powder manufacturer, while criticizing a recent study linking the use of talcum powder by women to ovarian cancer, said it would further investigate any possible relationship between cosmetic-grade talc and the development of disease.")
- [3] New York Times, Personal Health, (July 03, 1985) ("A number of studies have indicated that exposure to talc, the principal ingredient in talcum powder, increases the risk. This may be because talc is usually contaminated with particles of asbestos, which are known cancer-promoting substances.")
- [4] Washington Post, Fighting Ovarian Cancer: Doctors Don't Know Who's at Risk, or Why (May 30, 1989) ("One theory is that asbestos containing talc may account for some of the increased rate of disease in western countries that emphasize personal hygiene.")
- [5] San Francisco Chronicle, Use powder with caution (July 31, 1990)
- [6] Business Times, Safe Neways option to looking beautiful (Feb 17, 1991) ("According to him, the talc in talcum powder and colour cosmetics have a similar molecular structure as asbestos which can cause ovarian cancer while the alcohol content in mouthwash can cause throat and stomach cancer.")
- [7] Philadelphia Inquirer, Cancer risk and talcum linked; for women who used talc for a lifetime, the risk increased 300% (July 1, 1992)
- [8] Houston Chronicle, Use of talc on panties tied to cancer (July 1, 1992)
- [9] Los Angeles Daily News, Study says talc use increases women's risk of ovarian cancer (July 1, 1992)
- [10] Seattle Times, Study links talcum use, ovarian cancer (July 1, 1992)
- [11] St. Louis Post-Dispatch, Talcum powder, ovarian cancer linked (July 2, 1992)
- [12] The Independent, Condom talc risks, (Mar. 21, 1995) ("They point out that if it gets into the female reproductive tract, talc may result in fallopian tube fibrosis and infertility, and it may also be linked to ovarian cancer.")
- [13] Philadelphia Inquirer, Breaking the silence: women take on a deadly stalker ovarian cancer will kill more than 14,000 this year. Activists are targeting ignorance and complacency (May 18, 1997) ("using talcum powder on the genital area, among other factors, increase the risk")
- [14] Chicago Tribune, Survivor speaks out on ovarian cancer (Aug. 22, 1997) ("It is more prevalent in women who have had no pregnancies, have taken fertility drugs, had an early menopause, eaten a high-fat diet or frequently used talcum powder in the genital area.")
- [15] Harvard Women's Health Watch, Ovarian cancer (Oct. 1998) ("Several studies also suggest that two other practices -- a high-fat diet and long-term use of talcum powder on the genital region -- increase the likelihood of ovarian cancer. Researchers theorize that talc travels into the vagina, cervix, uterus, and ultimately to the ovaries, where it may prompt cellular changes and, later, cancer.")
- [16] Chicago Tribune, Talcum takes a tumble (July 14, 1999)

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## Appendix A: Sample Of Pre-2014 News Articles Addressing Posited Link Between Talc Use And Ovarian Cancer

- [17] HealthCommunities.com, Ovarian Cancer Risk Factors, (August 14, 1999) ("Some research indicates that there is an increased risk of ovarian cancer among women who apply talcum powder to the genital area or sanitary napkins.")
- [18] Cleveland Plain Dealer, Possible link between talcum powder, ovarian cancer (Aug. 17, 1999)
- [19] CNN.com, Ovarian cancer: It's less common than you think (Sept. 3, 1999) ("The ruling on talcum powder is still unclear, as well. In the past, talcum powder was sometimes contaminated with asbestos, a known cancer-causing mineral.")
- [20] Chicago Tribune, How much do you know about ovarian cancer? (Sept. 15, 1999) ("Some research has shown a possible link between talcum powders used in the genital region and an increased risk of ovarian cancer.")
- [21] Las Vegas Review Journal, Some promising treatments being developed for ovarian cancer (Nov. 25, 1999) ("In support of this, scientists point to several studies showing that talcum powder, which some women put on diaphragms or on genital skin, can raise ovarian cancer risk.")
- [22] Philadelphia Inquirer, Don't worry about talc in eye shadow, face powder (Jan. 16, 2000) ("That doesn't mean not to use eyeshadow or face powder with talc, but it absolutely means to consider never using it on your children, or vaginally on yourself.")
- [23] St. Louis Dispatch, Can genital warts cause cancer? (Apr. 26, 2000) ("Talc, the main ingredient of talcum powder, has been linked to ovarian cancer when used as a vaginal dusting powder.")
- [24] USA Today, Estrogen may join carcinogen list (Dec. 8, 2000) ("Research suggests that talcum powder used in feminine hygiene increases the risk of ovarian cancer.")
- [25] New York Post, Feds eye new causes of cancer (Dec. 9, 2000) ("Meanwhile, talc has been linked to an increased risk of ovarian cancer in women who use it for feminine hygiene")
- [26] Los Angeles Times, Study Suggests Aspirin May Help Prevent Ovarian Cancer (Mar. 12, 2001) ("Ovarian cancer might be preceded by inflammation due to pelvic inflammatory disease or the use of talcum powder, both of which are linked to an increased risk of the disease.")
- [27] The Guardian, Is your beauty regime damaging your health? Once again, studies are suggesting that chemicals used in cosmetics such as talc could increase the risk of cancer. Just how worried should we be . . . (Sept. 11, 2007)
- [28] National Health Service, Talcum powder and ovarian cancer (Sept. 29, 2008) ("Although this study has shortcomings and does not provide strong evidence of a causal link in itself, when put in context with other studies on this topic, it adds to the body of evidence suggesting that use of talc may be linked to ovarian cancer.")
- [29] Washington Post, Cellphones are possible cancer risk, WHO says (June 1, 2011) ("Other substances that the group has categorized as 'possibly carcinogenic' include talcum powder, which has been possibly linked to ovarian cancer).

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## Appendix A: Sample Of Pre-2014 News Articles Addressing Posited Link Between Talc Use And Ovarian Cancer

- [30] Cancer Weekly, Researchers from Pennsylvania State University Detail New Studies and Findings in the Area of Ovarian Cancer (Nov. 8, 2011) ("A number of observational studies (largely case-control) conducted over the last two decades suggest an association between use of talc powders on the female perineum and increased risk of ovarian cancer")
- [31] Women's Health Weekly, Recent findings from University of Queensland highlight research in ovarian cancer (Apr. 5, 2012) ("'Use of talcum powder in the perineal area has been associated with an increased risk of ovarian cancer")
- [32] The Guardian, Ovarian cancer: a call to arms: Susan Gubar was when she was diagnosed with ovarian cancer. It wasn't exactly tragedy her daughters fully grown, her work complete. The tragedy is the ignorance which still surrounds this neglected disease (Sept. 1, 2012) ("Asbestos exposure, talcum powder, hormone replacement therapy, and fallout from nuclear testing have all been linked to ovarian cancer")
- [33] Huffington Post, Health Myths: 7 medical misconceptions exposed (May 16, 2013) ("Harvard researchers recently found that postmenopausal women who use talcum powder in their genital area just once a week increase their risk of developing endometrial cancer by 24 percent. Another Harvard study found a strong link between talcum powder use and ovarian cancer (it can increase the risk of developing the cancer by up to 40 percent.")
- [34] Daily Mail, Women who regularly use talcum powder increase their risk of ovarian cancer by 24% (June 18, 2013) (The researchers analysed data from 8,525 women diagnosed with ovarian cancer and compared talcum powder use with that of 9,800 women who remained cancer-free. The results, published in the journal Cancer Prevention Research, showed regularly applying the powder particles after bathing or showering raised the risk of an ovarian tumour by 24 per cent.")
- [35] Daily Mail (UK), Talc can raise ovarian cancer risk by quarter (June 19, 2013)
- [36] The Sydney Morning Herald, Surprising cancer causes, (Aug. 02, 2013) ("Researchers have found a link between frequent use of talcum powder "for intimate personal hygiene" and ovarian cancer. The results published in the journal Cancer Prevention Research showed regularly applying the powder particles after bathing or showering raised the risk of an ovarian tumour by 24 per cent.")
- [37] Rapid City Journal, South Dakota jury ties talc powder to cancer risk (Oct. 05, 2013) ("A federal jury in Sioux Falls has found that a woman's use of Johnson & Johnson products that contained talcum contributed to her ovarian cancer.")
- [38] Reuters Legal, Johnson & Johnson failed to warn of possible talc-cancer link: jury (Oct. 8, 2013)

## APPENDIX B

#### **Expert References**

Expert Report of Michael M. Crowley, Ph.D., Nov. 12, 2018 (MDL No. 2328)

Expert Report of William E. Longo, Ph.D, and Mark W. Rigler, Ph.D., Nov. 14, 2018

Expert Report of Sarah E. Kane, M.D., Nov. 15, 2018 (MDL No. 2738)

Expert Report of Rebecca Smith-Bindman, M.D., Nov. 15, 2019 (MDL No. 2738)

Expert Report of Alan Campion, Ph.D., Nov. 16, 2018 (MDL No. 2738)

Expert Report of Arch Carson, M.D., Ph.D., Nov. 16, 2018 (MDL No. 2738)

Expert Report of Daniel L. Clarke-Pearson, M.D., Nov. 16, 2018 (MDL No. 2738)

Expert Report of Robert B. Cook, Ph.D., Nov. 16, 2018 (MDL No. 2738)

Expert Report of David Kessler, M.D., Nov. 16, 2018 (MDL No. 2738)

Expert Report of Mark Krekeler, Ph.D., Nov. 16, 2018 (MDL No. 2738)

Expert Report of Shawn Levy, Ph.D., Nov. 16, 2018 (MDL No. 2738)

Expert Report of Anne McTiernan, M.D., Ph.D., Nov. 16, 2019 (MDL No. 2738)

Expert Report of Patricia Moorman, M.S.P.H., Ph.D., Nov. 16, 2018 (MDL No. 2738)

Expert Report of Laura Plunkett, Ph.D., D.A.B.T., Nov. 16, 2018 (MDL No. 2738)

Expert Report of Ghassan Saed, Ph.D., Nov. 16, 2018 (MDL No. 2738)

Expert Report of Sonal Singh, M.D., M.P.H., Nov. 16, 2018 (MDL No. 2738)

Expert Report of Jack Siemiatycki, M.Sc., Ph.D., Nov. 16, 2018 (MDL No. 2738)

Expert Report of Ellen Blair Smith, Nov. 16, 2018 (MDL No. 2738)

Expert Report of Judith Wolf, M.D., Nov. 16, 2018 (MDL No. 2738)

Expert Report of April Zambelli-Weiner, Ph.D., M.P.H., Nov. 16, 2018 (MDL No. 2738)

Expert Report of Judith Zelikoff, Ph.D., Nov. 16, 2018 (MDL No. 2738)

Deposition of Sonal Singh, M.D., M.P.H., Jan. 16, 2019 (MDL No. 2738)

Deposition of Anne McTiernan, Jan. 28, 2019 (MDL No. 2738)

Deposition of Patricia Moorman, M.S.P.H., Ph.D. Jan. 25, 2019 (MDL No. 2738)

Deposition of Ghassan Saed, Ph.D., Jan. 23, 2019 (MDL No. 2738)

Deposition of Ghassan Saed, Ph.D., Feb. 14, 2019 (MDL No. 2738)

Deposition of Jack Siemiatycki, Jan. 31, 2019 (MDL No. 2738)

Deposition of Rebecca Smith-Bindman, M.D., Feb. 7, 2019 (MDL No. 2738)

Deposition of Rebecca Smith-Bindman, M.D., Feb. 8, 2019 (MDL No. 2738)

Deposition of April Zambelli-Weiner, Ph.D., Jan. 11, 2019 (MDL No. 2738)

Deposition of April Zambelli-Weiner, Ph.D., Feb. 7, 2019 (MDL No. 2738)

Gynecologic Oncology Email dated Sept. 19, 2018 re: GYN-18-1020: Final Decision (Ex. 35 to the Deposition of Ghassan Saed, Ph.D., Feb. 14, 2019 (MDL No. 2738))

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# APPENDIX C

1

## CURRICULUM VITAE The Johns Hopkins University School of Medicine

GREGORY B. DIETTE, MD, MHS

#### DEMOGRAPHIC AND PERSONAL INFORMATION

#### **Current Appointment:**

University: Professor of Medicine

Division of Pulmonary and Critical Care Medicine The Johns Hopkins University School of Medicine

Baltimore, MD

Division of General Internal Medicine

The Johns Hopkins University School of Medicine

Baltimore, MD

Department of Epidemiology

The Johns Hopkins University Bloomberg School of Public Health

Baltimore, MD

Department of Environmental Health Sciences

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### **Education and Training**

1981-1986	B.S.	The University of Pennsylvania Wharton School, Philadelphia, PA. BS degree in economics. Concentration: Management of Entrepreneurship
1981-1986	B.A.	The University of Pennsylvania School of Arts and Sciences Philadelphia, PA. English; Minor in Chemistry
1986-1990	M.D.	Temple University School of Medicine, Philadelphia, PA
1995-1997	M.H.S.	Johns Hopkins University, School of Hygiene and Public Health Epidemiology; Clinical Epidemiology

### **Post-Doctoral Training**

1990-1993	Intern-Resident, Department of Internal Medicine, Hospital of the University of Pennsylvania, Philadelphia, PA
1994-1995	Clinical Fellow, Division of Pulmonary and Critical Care, Johns Hopkins University School of Medicine, Baltimore, MD
1995-1998	Research Fellow, Division of Pulmonary and Critical Care, Johns Hopkins University School of Medicine, Baltimore, MD

Professional Experience:		
1991-1993	Assistant Clinical Instructor, University of Pennsylvania School of Medicine, Philadelphia, PA	
1993-1994	Clinical Instructor, University of Pennsylvania School of Medicine, Philadelphia, PA	
1993-1994	Attending Physician, Full-time, Department of Emergency Medicine, Hospital of the University of Pennsylvania, Philadelphia, PA	
1996-1999	Senior Physician Scientist, Quality Assessment and Improvement Systems Division, Covance Health Economics and Outcomes Services. Washington, D.C.	
1998-2000	Instructor, Departments of Medicine and Epidemiology, Johns Hopkins University, Baltimore, MD	
1998-present	Attending Physician, Department of Medicine, Johns Hopkins Hospital and Johns Hopkins Bayview Medical Center, Baltimore, MD Duties include outpatient practice devoted to adult asthma and general pulmonary medicine; inpatient care in acute care hospital and intensive care units.	
1998-2005	Core Faculty, Program for Medical Practice and Technology Assessment, Johns Hopkins University, Baltimore, MD	

2000-2005	Assistant Professor of Medicine, Departments of Medicine and Epidemiology, Johns Hopkins University, Baltimore, MD
2005-2011	Associate Professor of Medicine, Departments of Medicine and Epidemiology, Johns Hopkins University, Baltimore, MD
2001-2015	Director of Clinical Research, Division of Pulmonary and Critical Care Medicine, Johns Hopkins University School of Medicine, Baltimore, MD.
2011-Present	Professor of Medicine, Schools of Medicine and Public Health, Johns Hopkins University, Baltimore, MD
2011-Present	Director, Obstructive Lung Disease Program, Division of Pulmonary and Critical Care Medicine, Johns Hopkins University, Baltimore, MD

#### **RESEARCH ACTIVITIES**

#### Original Research

- 1. Grasso M, Weller WE, Shaffer TJ, **Diette GB**, Anderson GF. Capitation, Managed Care, and Chronic Obstructive Pulmonary Disease. American Journal of Respiratory and Critical Care Medicine 1998;158:133-138.
- 2. **Diette GB**, White P, Terry P, Jenckes M, Wise RA, Rubin H. Quality Assessment through Patient Self-Report of Symptoms Pre- and Post- Fiberoptic Bronchoscopy. Chest 1998;114:1446-1453.
- 3. **Diette GB**, Wiener CM, White P. The Higher Risk of Bleeding in Lung Transplant Recipients from Bronchoscopy is Independent of Traditional Bleeding Risks: Results of a Prospective Cohort Study. Chest 1999;115:397-402.
- 4. **Diette GB**, Wu AW, Skinner EA, Clark R, Markson L, McDonald R, Huber M, Markson L, Steinwachs D. Treatment Patterns Among Adult Asthmatics: Factors Associated with Overuse of Inhaled β-Agonists and Underuse of Inhaled Corticosteroids. Archives of Internal Medicine 1999;159: 2697-2704.
- 5. Barr LF, Campbell SE, **Diette GB**, Gabrielson EW, Kim S, Shim H, Dang CV. C-Myc Suppresses the Tumorigenicity of Lung Cancer Cells and Down-regulates Vascular Endothelial Growth Factor Expression. Cancer Research 2000; 60:143-9.
- 6. **Diette GB**, White P, Terry P, Jenckes M, Rosenthal D, Rubin HR. Utility of On-site Cytopathology Assessment for Bronchoscopic Evaluation of Lung Masses and Adenopathy. Chest 2000; 117:1186-1190.
- 7. Lechtzin N, Rubin HR, Jenckes M, White P, Zhou L, Thompson DA, **Diette GB**. Predictors of Pain Control in Patients Undergoing Flexible Bronchoscopy. American Journal of Respiratory and Critical Care Medicine 2000; 162:440-445.
- 8. **Diette GB,** Markson L, Skinner EA, Nguyen TTH, Algatt-Bergstrom P, Clark R, Wu AW. Nocturnal Asthma in Children Affects School Attendance, School Performance and Parents' Work Attendance. Archives of Pediatric and Adolescent Medicine 2000;154:923-928.

- 9. **Diette GB**, Skinner EA, Markson L, Algatt-Bergstrom P, Nguyen TTH, Clark RD, Wu AW. Consistency of Care with National Guidelines for Children with Asthma in Managed Care. Journal of Pediatrics 2001;138:59-64.
- 10. Lechtzin N, Wiener CM, Clawson L, Chaudhry V, **Diette GB**. Hospitalization in amyotrophic lateral sclerosis: Causes, Costs and Outcomes. Neurology 2001;56:753-757.
- 11. Krishnan JA, **Diette GB**, Skinner EA, Clark BD, Steinwachs D, Wu AW. Race and Sex Differences in Consistency of Care with National Asthma Guidelines in Managed Care Organizations. Archives of Internal Medicine 2001;161:1660-1668.
- 12. **Diette GB**, Skinner EA, Nguyen TTH, Markson L, Clark BD, Wu AW. Comparison of Quality of Care of Specialist and Generalist Physicians as Usual Source of Asthma Care for Children. Pediatrics 2001;108: 432-437.
- 13. Wu AW, Young Y, Skinner EA, **Diette GB**, Vogeli C, Huber M, Peres A, Steinwachs D. Quality of Care and Outcomes of Adult Asthmatics Treated by Specialists and Generalists in Managed Care. Archives of Internal Medicine 2001;161:2554-2560.
- 14. Rubin HR, Pronovost P, **Diette GB**. From a Process of Care to a Measure: The Development and Testing of a Quality Indicator. International Journal for Quality in Health Care 2001; 13: 489-496.
- 15. Rubin HR, Pronovost P, **Diette GB**. The advantages and disadvantages of process-based measures of health care quality. International Journal for Quality in Health Care 2001; 13: 469-474.
- 16. Lechtzin N, Wiener CM, Shade DM, Clawson L, **Diette GB.** Spirometry in the supine position improves the detection of diaphragmatic weakness in ALS. Chest 2002; 121: 436-442.
- 17. Wolfenden LL, **Diette GB**, Skinner EA, Steinwachs DM, Wu AW. Gaps in Asthma Care of the Oldest Adults. Journal of the American Geriatrics Society 2002; 50: 877-883.
- 18. **Diette GB**, Krishnan J, Dominici F, Haponik E, Skinner EA, Steinwachs D, Wu AW. Asthma in older patients: Factors associated with hospitalization. Archives of Internal Medicine 2002;162:1123-1132.
- 19. Lechtzin N, Rothstein J, **Diette GB**, Wiener CM. Amyotrophic Lateral Sclerosis: Evaluation and Treatment of Respiratory Impairment. Amyotrophic Lateral Sclerosis and Other Motor Neuron Diseases 2002;3:5-13.
- 20. Allen-Ramey FC, Clawson L, **Diette GB**, McDonald RC, Skinner EA, Steinwachs DM, Wu AW. Methods Aimed at Improving Asthma Care and Outcomes Management. Disease Management & Health Outcomes 2002;10(8):495-503.
- 21. Lechtzin N, Rubin HR, Jenckes M, White P, **Diette GB**. Patient satisfaction with bronchoscopy. American Journal of Respiratory and Critical Care Medicine 2002;166: 1326-1331.
- 22. Scatarige JD, **Diette GB**, Merriman B, Haponik EF, Fishman EK. Availability, Requesting Practices, and Barriers to Referral for High-Resolution Computed Tomography of the Lungs: Results of a Survey of U.S. Pulmonologists. Academic Radiology 2002;9:1370-1377.

- 23. Srinivasan A, Wolfenden LL, Song X, Hartsell T, Jones HD, **Diette GB**, Orens JB, Yung RC, Ross TL, Mackie K, Merz W, Scheel PJ, Haponik EF, Perl TM. An outbreak of *Pseudomonas aeruginosa* associated with flexible bronchoscopes. New England Journal of Medicine 2003 Jan 16;348: 221-7.
- 24. Wolfenden LL, **Diette GB**, Krishnan JA, Skinner EA, Steinwachs DM, Wu AW. Lower physician estimate of underlying asthma severity leads to under-treatment. Archives of Internal Medicine 2003; 163:231-6.
- 25. Scatarige JD, **Diette GB**, Merriman B, Haponik EF, Fishman EK. Utility of High-resolution CT for Management of Patients with Diffuse Lung Disease: Results of a Survey of U.S. Pulmonary Physicians. Academic Radiology 2003; 10:167-175.
- 26. Scatarige JD, **Diette GB**, Merriman B, Fishman EK. Physician Satisfaction with HRCT Services Provided by Radiologists: Results of a Nationwide Survey of American Pulmonary Sub-specialists. American Journal of Roentgenology 2003; 180:585-589.
- 27. **Diette GB**, Lechtzin N, Haponik E, Devrotes A, Rubin HR. Distraction Therapy with Nature Sights and Sounds Reduces Pain During Flexible Bronchoscopy: A Complementary Approach to Routine Analgesia. Chest 2003; 123(3):941-948.
- 28. Patil S, Krishnan JA, Lechtzin N, **Diette GB**. In-Hospital Mortality Following Acute Exacerbation of Chronic Obstructive Pulmonary Disease. Archives of Internal Medicine 2003 May 26;163(10): 1180-6.
- 29. Hehn BT, Haponik E, Rubin HR, Lechtzin N, **Diette GB**. The Relationship of Age to Process of Care and Patient Tolerance of Bronchoscopy. Journal of the American Geriatrics Society 2003 51:917-922.
- 30. Krishnan JA, Parce PB, Martinez T, **Diette GB**, Brower RG. Caloric Intake in Medical Intensive Care Unit Patients: Consistency of Care with Guidelines and Relationship to Clinical Outcomes. Chest 2003; 124:297-305.
- 31. Rubinson L, Wu AW, Haponik EF, **Diette GB**. Internists' Adherence to Guidelines for Prevention of Intravascular Catheter Infections. JAMA 2003;290(21):2802.
- 32. Alberg AJ, **Diette** GB, Ford JG. Invited Commentary: Attendance and Absence as Markers of Health Status The Example of Active and Passive Cigarette Smoking. Am J Epidemiol 2003; 157:870-873.
- 33. Lechtzin N, Wiener CM, Clawson L, Davidson MC, Anderson F, Gowda N, **Diette GB** and the ALS CARE Study Group. Use of noninvasive ventilation in patients with amyotrophic lateral sclerosis. ALS and Other Motor Neuron Disorders 2004;5(1):9-15.
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- 51. Girgis RE, Champion HC, **Diette GB**, Johns RA, Permutt S, Sylvester JT. Decreased Exhaled Nitric Oxide in Pulmonary Arterial Hypertension: Response to Bosentan Therapy. American Journal of Respiratory and Critical Care Med Medicine 2005;172(3):352-7.
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- 54. Matsui EC, **Diette GB**, Krop EJM, Aalberse RC, Smith AL, Curtin-Brosnan J, Eggleston PA. Mouse allergen-specific immunoglobulin G and immunoglobulin G4 and allergic symptoms in immunoglobulin E-sensitized laboratory animal workers. Clin Exp Allergy. 2005;35:1347-1353.
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- 56. Eggleston PA, Butz A, Rand C, Curtin-Brosnan J, Kanchanaraksa S, Swartz L, Breysse P, Buckley T, **Diette GB**, Merriman B, Krishnan J. Home environmental intervention in inner-city asthma: a randomized controlled clinical trial. Ann Allergy Asthma and Immunology. 2005;95(6):496-497.
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- 59. Scatarige JC, Weiss CR, **Diette GB**, Haponik EF, Merriman B, Fishman EK. Scanning Systems and Protocols used during imaging for Acute Pulmonary Embolism: How Much do our Clinical Colleagues Know? Academic Radiology. 2006; 13:678-685.
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- 61. Krishnan V, **Diette GB**, Rand CS, Bilderback AL, Merriman BJ, Hansel NN, Krishnan JA. Mortality in patients hospitalized for asthma exacerbations in the United States. Am J Resp Crit Care Med. 2006 Jun 15;174(6):633-8.

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- 64. Matsui EC, Eggleston PA, Buckley TJ, Krishnan JA, Breysse P, Rand C, **Diette GB**. Household Mouse Allergen Exposure and Asthma Morbidity in Inner-City Pre-School Children. Annals of Allergy, Asthma & Immunology. 2006; 97(4): 514-20.
- 65. Hansel NN, Rand CS, Krishnan JA, Okelo S, Breysse PN, Eggleston PA, Matsui E, Curtin-Brosnan J, **Diette GB**. Influence of Caregiver's Health Beliefs and Experiences on their Use of Environmental Control Practices in Homes of Pre-School Children with Asthma. Pediatric Asthma, Allergy & Immunology. 2006;19(4):231-242.
- 66. Matsui EC, Eggleston PA, Breysse PN, Rand CS, **Diette GB**. Mouse allergen-specific antibody responses in inner-city children with asthma. Journal of Allergy and Clinical Immunology 2007;119(4):910-5.
- 67. Schmier JK, Manjunath R, Halpern MT, Jones ML, Thompson K, **Diette GB**. The impact of inadequately controlled asthma in urban children on quality of life and productivity. Annals of Allergy Asthma Immunology 2007;98(3):245-251.
- 68. Okelo SO, Wu AW, Merriman B, Krishnan JA, **Diette GB**. Are Physician Estimates of Asthma Severity Less Accurate in Black than in White Patients? Journal of General Internal Medicine 2007;22(7):976-81.
- 69. Han MK, Kim MG, Mardon R, Renner P, Sullivan S, **Diette GB,** Martinez FJ. Spirometry utilization for COPD? How do we measure up? Chest. 2007;132(2):403-9.
- 70. **Diette GB**, Patino CM, Merriman B, Paulin L, Okelo S, Thompson K, Krishnan JA, Quartey R, Perez-Williams D, Rand C. Patient Factors that Physicians Use to Assign Asthma Treatment. Archives of Internal Medicine. 2007;167(13):1360-6.
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- 73. Weiss CR, **Diette GB**, Haponik EF, Merriman B, Scatarige JC, Fishman EK. Pretest risk assessment in suspected acute pulmonary embolism. Academic Radiology. 2008 Jan;15(1):3-14.
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- 86. Mathias RA, Grant AV, Rafaels N, Hand T, Gao L, Vergara C, Tsai YJ, Yang M, Campbell M, Foster C, Gao P, Togias A, Hansel NN, **Diette G**, Adkinson NF, Liu MC, Faruque M, Dunston GM, Watson HR, Bracken MB, Hoh J, Maul P, Maul T, Jedlicka AE, Murray T, Hetmanski JB, Ashworth R, Ongaco CM, Hetrick KN, Doheny KF, Pugh EW, Rotimi CN, Ford J, Eng C,

Burchard EG, Sleiman PM, Hakonarson H, Forno E, Raby BA, Weiss ST, Scott AF, Kabesch M, Liang L, Abecasis G, Moffatt MF, Cookson WO, Ruczinski I, Beaty TH, Barnes KC. A genomewide association study on African-ancestry populations for asthma. J Allergy Clin Immunol. 2010 Feb;125(2):336-346.e4.

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#### **EXTRAMURAL FUNDING:**

# **Current Funding:**

09/01/2015-08/31/2019 Obesity Enhances Susceptibility to Pollutant Effects in Asthma

NIH/NIEHS P50ES018176 Annual Direct: \$1,051,797

PI: Hansel

Role: Co-Director, 25%

OBesity Enhances Susceptibility to Pollutant Effects in Asthma (OBESE ASTHMA), will study mechanisms by which obesity leads to enhanced susceptibility to pollutants (particulate matter with aerodynamic diameter < 2.5 µm (PM2.5) and ultrafine particles (UFP)) leading to increased asthma morbidity in children.

07/01/2015-06/30/2020

Comparing Urban and Rural Effects of Poverty on COPD (CURE COPD)

NIH/NIEHS P50ES026096 Annual Direct: \$693,432

PI: Hansel

Role: Co-Director, 5%

Comparing Urban and Rural Effects of Poverty on COPD (CURE COPD) Annual Direct Cost: \$693,432 Principal Investigator, 23% effort The aim of our Center, Comparing Urban and Rural Effects of poverty on COPD (CURE COPD), is to understand these interactive effects (high indoor air pollution, obesity and pro-inflammatory diets) in both urban (Project 1) and rural (Project 2) low income communities, both of which suffer disproportionate prevalence and morbidity from COPD.

09/01/2012-08/31/2017

K-24 Mentoring and Patient Oriented Research in Asthma

NIH/NIEHS K24ES021098 Annual Direct: \$182,540.00 Grant Number 1133451

PI: Diette

Role: Principal Investigator, 6.0 calendar months

A major focus of this proposal will be to expand the present research program from inner city children to also include inner city adults with asthma. With this expansion in the research program, the candidate will provide the foundation for future trials in adults of home-based multi-component environmental interventions, goals which are concordant with the career goals of current mentees and will establish the infrastructure for future mentees with a research interest in adult asthma

09/01/2009-07/31/2015

Title: Mechanisms of asthma-dietary interventions against environmental

triggers (No cost extension)

P01 ES018176 NIH/NIEHS/EPA

Total Direct \$4,999,821 (\$970,685 Year 3)

PI/PD: Diette

Roles: Program Director, Administrative Core Leader, Project 1 Leader. 3.0

calendar months

Goals: The long-term goal of the **ASTHMA-DIET** (**A** Study to understand **The Mechanisms** of **Asthma--Dietary Interventions** to protect against Environmental **Triggers**) Program is to understand how diet influences the asthmatic response to indoor and outdoor airborne pollutants and allergens, with the expectation of translating these findings into practical dietary strategies to improve pediatric asthma health.

09/07/2010-04/30/2015

Genetic susceptibility to asthma and indoor air pollution in Peru

R01 ES018845 NIH/NIEHS

Annual Direct Cost: \$433,836

PI: Hansel

Role: Co-Investigator, 1.20 calendar months

The goal of this proposal is to examine the contribution of genetic susceptibility to the adverse effects of indoor air pollution (particulate matter and nitrogen dioxide) on asthma health in a Hispanic population.

02/18/2011-12/31/2015

Statistical methods for complex environmental health data.

R01 ES019560 NIH/NIEHS

Annual Direct: \$243,746

PI: Peng

Role: Co-Investigator, 0.60 calendar months

This project will develop a spatial-temporal Bayesian hierarchical multivariate receptor model for identifying sources of air pollution chemical mixtures and estimating their effect on population health outcomes. Innovation focuses on (a) conducting an integrated national assessment of the health effects of pollution sources; (b) the use of spatial-temporal models for source apportionment; and (c) the introduction of national databases on source profiles and emissions to inform model development and parameter estimation. These methods will be applied to data from a national study of air pollution and health outcomes, the Medicare Cohort Air Pollution Study, to (a) estimate short-term population health effects of PM sources on a national, regional, and local scale; (b) estimate short- and long-term health effects of PM constituents and identify the sources of toxic constituents

#### PAST (most recent 5 years only)

09/14/2007-08/31/2013 (NCE)

SCCOR: Mechanisms and Treatment of COPD Progression

1P50HL084945-01 NIH/NHLBI

Annual Direct \$1,957,399 Program Director: Wise

Role: Core C Leader, 1.2 calendar months

The overall goal of this SCCOR program is to understand the complex interplay of mechanisms that promote the progression of COPD and to translate that understanding into treatments that can benefit persons who

suffer from COPD.

09/29/2007-06/30/2013 Center for Childhood Asthma in the Urban Environment

# Case 3:16-md-02738-MAS-RLS Document 9737-8 Filed 05/07/19 Page 86 of 516 PageID: 38786

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(NCE)

The Role of Particulate Matter and Allergens in Oxidative Stress in Asthma

(DISCOVER) 1P50ES015903 NIH/NIEHS

Annual Direct \$ 1,607,733

PI/PD: Breysse

Roles: Co-Program Director; Project Leader, Project 1 (1.2 calendar months); Co-Investigator, Administrative Core (1.8 calendar months) The long-term goals of this Center are to examine how exposures to environmental pollutants and allergens may relate to airway inflammation and respiratory morbidity in children with asthma living in the inner city of Baltimore, and to search for new ways to reduce asthma morbidity by reducing exposure to these agents.

07/01/2008-06/30/2013

The Impact of Indoor Particulate Matter Exposure on Non-allergic Asthma

5K23 ES016819 NIH/NIEHS

Total Direct: \$755,875

PI: McCormack

Role: Mentor, no salary support

K23 Mentored Patient-Oriented Research Career Development Award The goal of this project is to examine adverse effects of coarse indoor PM. Using a study design that combines a longitudinal panel study and an exposure challenge model the research will demonstrate a causal relationship between indoor coarse PM exposure and exacerbation of asthma status.

07/01/2010-06/30/2012

Vitamin D and Susceptibility to Inhaled Pollutants in Urban Children with

Asthma NIH

Total Direct: \$187,645

PI: Bose

Role: Primary Mentor

NRSA. The goal of this study is to identify the role of vitamin D upon the effects of inhaled pollutants upon asthma severity in inner-city children.

07/01/2011-09/24/2012

Interventions to Modify Adherence to Asthma Guidelines

HHSA 290 2007 10061 I

Agency: AHRQ

Annual Direct Costs: \$260,643

PI: Eric Bass Role: Co-PI

The objective of this CER is to determine the comparative effectiveness of interventions to modify the adherence of health care providers to asthma guidelines.

12/15/2008-12/14/2011

Intervention trial to reduce nitrogen dioxide and carbon monoxide

concentrations in Baltimore City homes

FR-5200-N-01A

HUD

Annual Direct \$271,415

PI: Hansel

Role: Co-Investigator, 0.96 calendar months

The purpose of this research is to conduct a randomized intervention trial aimed at reducing indoor nitrogen dioxide and carbon monoxide

concentrations in homes.

07/08/2009-06/30/2011 Effect of Fenzian treatment on symptoms, pulmonary function and

Albuterol use in patients with mild persistent asthma: A multi-center, sham-

controlled clinical trial

Fenzian, Inc. (Formerly Eumedics)

Annual Direct: \$88,433

PI: Diette, 1.20 calendar months

The purpose of the study is to test the efficacy of Fenzian treatment over five weeks to improve asthma control, pulmonary function, symptoms and

bronchodilator use.

07/01/2006-06/30/2011 Mouse Allergen and Inner-City Asthma

1R01 A1070630-01 NIH/NIAAD

Annual Direct \$225,000

PI: Matsui

Role: Co-Investigator, 0.60 calendar months

The primary aims of this project are (1) to examine the link between household mouse allergen exposure and asthma morbidity, and (2) to determine the diagnostic utility of allergy skin testing in predicting allergic

airways responses to mouse allergen.

12/26/2003-01/30/2011 Evaluation of home automated tele-management in COPD.

R01 AI070630

NIH

Annual Direct: \$225,000

PI: Finkelstein

Role: Co-Investigator, 0.60 calendar months

The goal of this project is to evaluate the impact of home tele-management

in COPD patients.

12/01/2005-11/30/2010 A Multicenter Randomized Clinical Trial: Asthma Intervention Research

(AIR2 Trial) Asthmatix, Inc

Annual Direct \$313,504

PI: Yung

Role: Co-Investigator, 0.12 calendar months

The goal of this trial is to assess the safety and effectiveness of the Alair

system for the treatment of asthma.

11/1/2003-10/31/2009 Center for Childhood Asthma in the Urban Environment

P01 R-826724/P01 ES09606 (Breysse)

NIH/EHS/EPA

Annual Direct \$918,780

PI: Breysse

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Roles: Deputy Program Director; PI of Epidemiology Component, Co-Investigator, 1.5 calendar months

The long term goals of this Center were to examine how exposures to environmental pollutants and allergens might relate to airway inflammation and respiratory morbidity in children with asthma living in the inner city of Baltimore, and to search for new ways to reduce asthma morbidity by reducing exposure to these agents.

09/30/2003-06/30/2009

SCCOR: Ventilator associated lung injury: Molecular approaches

P50 HL073944-03 (Brower)

NIH/NHLBI

Annual Direct \$2,790,934

PI/PD: Brower

Role: Core Leader, Core B, Data Management Core, 0.60 calendar months This SCCOR was focused on understanding the complex interplay between mechanical ventilation and the increased morbidity and mortality associated with acute lung injury. The application had interactive Cores using state of the art approaches to provide understanding of critical pathobiologic processes in ventilator-associated lung injury and to define key genetic determinants relevant to acute lung injury.

09/30/2004-08/31/2009

Genetics of Asthma Severity and Lung Function Decline

K23 HL76322 -02 NIH/NHLBI

Annual Direct \$148,250

PI: Hansel

Role: Primary Mentor, effort as needed

The goal of this study was to identify genetic polymorphisms that mark high risk individuals for early intervention to decrease asthma morbidity.

09/10/2001-08/31/2006

Improving physician adherence to asthma guidelines

K23 HL04266

NIH

Annual Direct \$146,772

Role: Principal Investigator, 9.0 calendar months

Provide mentored training and research period for early career development.

Improve physician adherence to national asthma guidelines

09/01/2002-07/31/2007

Baltimore Asthma Severity Study

R01 HL67905 (Ford)

NIH

Annual Direct \$443,417

PI: Ford

Role: Co-Investigator, 0.6 calendar months

The objective of this study was to provide insight into the genes controlling susceptibility to human asthma and promote the development of novel therapeutics.

9/01/2002-08/31/2007

Improving Respiratory Outcomes in ALS

K23 HL67887 (Lechtzin)

NIH

Annual Direct \$121,750

PI: Lechtzin

Role: Advisor (effort as needed)

The overall theme of this award is to study various aspects of non-invasive positive pressure ventilation in patients with ALS with the goal of improving respiratory management of these patients.

1 7 8

2007-2008 (NCE)

Howard/Hopkins Center for Reducing Asthma Disparities

HL072455 NIH/NHLBI

Annual Direct \$513,475

PI: Rand

Role: Leader, Project 1, 1.5 calendar months, no cost extension

This application presents four research projects designed to collaboratively investigate factors associated with the disproportionate burden of asthma

experienced by inner-city, African-American children and adults.

09/30/2004-06/30/2008 Improving asthma care for minority children in Head Start

R18 HL73833

NIH

Annual Direct \$625,506

PI: Rand

Role: Co-Investigator, 0.6 calendar months

The goal of this project is to study the effect communication intervention on asthma-related morbidity and mortality among low-income African American

children.

02/23/2004-12/31/2006 A randomized, sham-controlled, double-blinded pilot study to assess the

effect of high frequency chest wall oscillation therapy in patients with

chronic bronchitis Advanced Respiratory

PI: Diette, 0.12 calendar months

10/01/2007-09/30/2009 Randomized clinical trial

Protocol #: CQAB149B2335S

**Novartis** 

Total Direct Costs: \$161,368 PI: Diette, 1.20 calendar months

A 26-week treatment, multicenter, randomized, double-blind, double dummy, placebo-controlled, adaptive, seamless, parallel-group study to assess the efficacy, safety and tolerability of two doses of indacaterol (selected from 75, 150, 300 & 600 ug o.d.) in patients with chronic obstructive pulmonary disease using blinded formoterol (12 ug b.i.d.) and open label tiotropium (18 ug o.d.) as active controls.

#### **EDUCATIONAL ACTIVITIES**

# **Educational Publications**

# **Invited Review Articles**

- 1. Rubinson L, Diette GB. Best Practices for Insertion of Central Venous Catheters in Intensive Care Units to Prevent Catheter-Related Bloodstream Infections. Journal of Laboratory and Clinical Medicine 2004;143:5-13.
- 2. Sharma HP, Hansel NN, Matsui EC, Diette GB, Eggleston PA, Breysee PN. Indoor Environmental Influences on Children's Asthma. Pediatric Clinics North America. 2007;54:103-120
- 3. Hansel NN and Diette GB. Gene Expression Profiling in Human Asthma. Proc Am Thorac Soc. 2007; 4(1):32-6.
- 4. **Diette GB**, Rand C. The Contributing Role of Health-Care Communication to Health Disparities for Minority Patients with Asthma. Chest. 2007 Nov;132(5 Suppl):802S-9S.
- 5. **Diette GB**, McCormack MC, Hansel NN, Breysee PN, Matsui EC. Environmental issues in managing asthma. Respiratory Care. 2008;53(5):602-15; discussion 616-7.
- 6. Matsui EC, Hansel NN, McCormack MC, Rusher R, Breysse P, **Diette GB**. Asthma in the Inner City and the Indoor Environment. Immunology Allergy Clinics North America. 2008;28:665-686.
- 7. Okelo SO, Butz AM, Sharma R, **Diette GB**, Pitts SI, King TM, Linn ST, Reuben M. Chelladurai Y, Robinson KA. Interventions to modify health care provider adherence to asthma guidelines: A systemic review. Pediatrics. 2013 Sep;132(3):517-34.

#### **Editorials**

- 1. Krishnan JA, **Diette GB**, Rand CS. Disparities in Outcomes from Chronic Disease: Impaired Patient-Physician Partnerships May Be an Important Cause in Minorities. British Medical Journal 2001;323:950.
- 2. Alberg A, **Diette GB**, Ford J. Attendance and absence as markers of health status: The example of active and passive cigarette smoking. American Journal of Epidemiology 2003 May 15;157(10):870-3.
- 3. **Diette GB**, Clinical Commentary: Overuse of β2-agonists. *J Resp Diseases* 2000;21:721.

# **Case Reports**

None.

#### Letters

- 1. Patil S, Krishnan JA, Lechtzin N, **Diette GB**. In-hospital mortality following acute exacerbation of chronic obstructive pulmonary disease. *Archives of Internal Medicine*. 2004 Jan 26;164:222-223.
- 2. Diette GB, Wu AW. Elderly asthmatic patients. Archives of Internal Medicine. 2003 Jan 13;163;1:122.

4. Clerisme-Beaty EM, Rand C, **Diette GB.** Reply to Farah. Weight loss in asthma: More evidence is needed. Reply to Farah. Journal of Allergy and Clinical Immunology 2010 125(3):770. PMCID: PMC2908807.

# **Book Chapters:**

- 1. **Diette G**, Brower R. Traditional Invasive Ventilation. In, <u>Pulmonary Respiratory Therapy Secrets</u>, 2<sup>nd</sup> Edition, Parsons P and Heffner J, Eds., Philadelphia, Hanley & Belfus, 2002.
- 2. **Diette G**, Brower R. Traditional Invasive Ventilation. In, <u>Pulmonary Respiratory Therapy Secrets</u>, Parsons P and Heffner J, Eds., Philadelphia, Hanley & Belfus, 1997.
- 3. **Diette G.** Pleural Effusion. In, Mosby's Success in Medicine Specialty Clinical Sciences, Donnelly JL, Ed., Mosby, 1996.
- 5. **Diette G.** Pneumothorax. In, Mosby's Success in Medicine Specialty Clinical Sciences, Donnelly JL, Ed., Mosby, 1996.
- 6. **Bose S, Diette GB.** Health disparities related to environmental air quality. In: Health Disparities in Respiratory Medicine. Eds: Gerald L and Berry C. Springer. In press.

# **Internet:**

Diette GB, Liu MC. Disease Update on Asthma. Medcast Networks. [Released March 1, 1999]

Okelo SO, Butz AM, Sharma R, **Diette GB**, Pitts SI, King TM, Linn ST, Reuben M, Chelladurai Y, Robinson KA. Interventions to modify health care provider adherence to asthma guidelines [Internet]. Rockville MD: Agency for Healthcare Research and Quality (US); 2013 May.

# Reports:

- 1. Wu A, **Diette GB**, Skinner E, Clark R, Steinwachs D. Treatment Patterns Among Adult Asthmatics: Factors Associated with High Use of Inhaled β-agonists, Low Use of Inhaled Corticosteroids, and Nocturnal Symptoms. Submitted to Merck & Co., Inc., July 1997.
- 2. Steinberg EP, Holtz PM, Greenwald TP, **Diette GB**, Wills S, Webb A, Daugherty L, Caravoulias CL, Gabrielsen M, Pomponio C. Report of results of a pilot test of draft NCQA HEDIS measures of health plan performance in control of blood pressure among diagnosed hypertensives. Submitted to the NCQA Hypertension Measure Advisory Committee, July 1998.
- 3. Wu AW, Skinner EA, **Diette GB**, Nguyen TTH, Clark RD. Quality of Care and Outcomes for Childhood Asthma in Managed Care: Validation of the Asthma Therapy Assessment Questionnaire. Submitted to Merck & Co., Inc., November 1998.
- 4. **Diette GB**, Krishnan JA, Lechtzin N, Belcastro D. Evidence Report on Chronic Obstructive Pulmonary Disease: Treatment and Risks. Submitted to CardioContinuum, September 1999.
- 5. Wu AW, **Diette GB**, Dominici F, Skinner EA. The 1998 Asthma Outcomes Survey: Phase I Final Report. Submitted to the Pacific Business Group on Health, October 1999.

- 6. **Diette GB**, Krishnan JA, Lechtzin N, Belcastro D. Report on Focus Group of Clinician Experts on Treatment of Chronic Obstructive Pulmonary Disease. Submitted to CardioContinuum, September 1999.
- 7. **Diette GB,** Qutami M, Sullivan B. Report on Cystic Fibrosis Utilization and Asthma Utilization and Medication Use. Submitted to Aerogen, December 1999.
- 8. **Diette GB**, Rand C, Wise RA, Thompson K, Merriman B. Pilot Study of Alternative Treatment Settings of High Frequency Chest Wall Oscillation in Patients with Chronic Bronchitis. Submitted to Advanced Respiratory, Inc, December 2003.

# Teaching

# **Classroom Instruction**

1993-1994	Instructor, Course on Clinical Management in the Emergency Department, University of Pennsylvania Department of Emergency Medicine
12/1993	Instructor, First Aid for First Year Medical Students, University of Pennsylvania School of Medicine
1996 & 1999	Clinical Faculty for Human Anatomy Discussion Group, Heart and Lungs, Johns Hopkins University School of Medicine
1997-2000	Instructor, Evidence-Based Medicine Rotation for Medical Interns, Chronic Obstructive Pulmonary Diseases, Department of Medicine, Johns Hopkins Bayview Medical Center
1997 & 2000	Discussion Leader, Organ Systems Course, Pulmonary Physiology Section, Johns Hopkins University School of Medicine
1997	Teaching Assistant, The Science of Clinical Investigation: Design of Clinical Studies. Johns Hopkins University School of Hygiene and Public Health
1998	Lecturer, Clinical Skills Course: The Pulmonary Examination, Johns Hopkins University School of Medicine
1999 & 2000	Discussion Leader, Pathophysiology Course, Pathophysiology of Shock, Johns Hopkins University School of Medicine
1999	Lecturer, Advanced Research Methods, International Respiratory Epidemiology Course, American Thoracic Society, Cusco, Peru
1999-2002	Co-Director. The Science of Clinical Investigation: Design of Clinical Studies. Johns Hopkins University School of Hygiene and Public Health
2000-2003	Lecturer, Patient Outcomes and Quality of Care Course, Department of Health Policy and Management, Johns Hopkins University School of Hygiene and Public Health
2000	Lecturer, Advance Research Methods, International Respiratory Epidemiology Course,

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	American Thoracic Society, Quinamavida, Chile
2001	Discussion Leader, Clinical Epidemiology, Department of Epidemiology, Johns Hopkins University, April 2001.
2003	Co-Director. Advanced Research Methods, International Respiratory Epidemiology Course, American Thoracic Society, Buenos Aires, Argentine
2004	Director. Advanced Research Methods, Method in Epidemiologic, Clinical and Operations Research, American Thoracic Society, Punta del Este, Uruguay
2005	Faculty. Methods in Clinical Research. ERS/ATS School Course. Prague, Czech Republic,
2005	Director. Advanced Research Methods, Methods in Epidemiologic, Clinical and Operations Research, American Thoracic Society, Quito, Ecuador
2006	Director. Advanced Research Methods, Methods in Epidemiologic, Clinical and Operations Research, American Thoracic Society, Alphaville, Brazil.
2007-Present	Attending Physician, the Barker Firm, Johns Hopkins University School of Medicine

# **Continuing Medical Education**

2010 Managed care strategies used in the successful treatment of asthma. National Asthma Education and Prevention Program. Medical Communications Media, Inc.

# Mentoring (pre- and post-doctoral):

#### Advisees

Auvisces	
2012-Present	Emily Bingham, MD Post-doctoral Fellow, Division of Pulmonary and Critical Care Medicine
2011-Present	Laura M. Paulin, MD Post-doctoral Fellow, Division of Pulmonary and Critical Care Medicine
2012-Present	Jessica Rice, MD Post-doctoral Fellow, Department of Pediatrics
2010-2014	Niru Putcha, MD Post-doctoral Fellow, Division of Pulmonary and Critical Care Medicine
2010-2011	Daniel Jamieson, MD Post-doctoral Fellow, Division of Pulmonary and Critical Care Medicine
2009-Present	Sonali Bose, MD, MPH Post-doctoral Fellow, Division of Pulmonary and Critical Care Medicine Research Theme: Vitamin D levels in urban black children with asthma

Current Position: Instructor of Medicine, Pulmonary and Critical Care Medicine

2009-2010 Marisha Cook, MD

Post-doctoral Fellow, Division of Allergy and Clinical Immunology Research Theme: Dietary pattern differences by race in asthma Current Position: Post-doctoral Fellow, Allergy & Clinical Immunology

2008-2009 Timothy Scialla, MD

Post-doctoral Fellow, Division of Pulmonary and Critical Care Medicine

Research Theme: Inner City Diet and Asthma

Current Position: Assistant Professor of Medicine, University of Miami, Miami, Florida

2006-2007 Sabine Karem, MD

Post-doctoral Fellow, Division of Pulmonary and Critical Care Medicine

Research Theme: Asthma Control in African-Americans

Current Position: Internal Medicine Resident, Montifiore Hospital, Bronx, NY

2005-2006 Lindsey Kim

MPH student, School of Hygiene and Public Health

Thesis: Outcomes Study on Environmental Control Practices on Health of Inner-City

Children with Asthma

2005-2007 Emily Smith Tonorezos

Post-Doctoral Fellow, Division of General Internal Medicine

Research Theme: Diabetes as a modifying factor on the effect of particulate matter in

COPD

Current Position: Assistant Professor of Medicine, Memorial Sloan Kettering, New York.

2005-2008 Meredith C. McCormack, MD, MHS

Post-Doctoral Fellow, Division of Pulmonary and Critical Care Medicine

Awarded Chest Foundation Award for Women's Studies, Loan Repayment Program, NIH K-23 Award, Johns Hopkins Bloomberg School of Public Health Faculty Grant in Global

Health, and Pearl M. Stetler Research Fund

Research Theme: Particulate Matter Effects on Asthma and COPD

Current Position: Assistant Professor of Medicine, Johns Hopkins University, Baltimore,

Maryland

2004-2006 Amit Rahman

Medical Student, Johns Hopkins University, School of Medicine

Research Theme: Co-Morbidity COPD Outcomes

2004-2005 Alan Salas

Under-represented Minority Summer Research Program

Undergraduate Student, Johns Hopkins University, Baltimore, MD

Research Theme: Early Life Exposures and Risk of Asthma

2002-2003 Deanna Perez Williams

Community Health Scholars Program, Kellogg Foundation

Research Theme: Development of a Culturally-Sensitive, Patient-Focused Asthma Communication Instrument Designed to Enhance Provider-Patient Communication in Hispanics in Baltimore

Current Position: Howard University

2002-2004 Elizabeth C. Matsui, MD

Post-Doctoral Fellow, Division of Allergy and Immunology, Department of Pediatrics, Johns Hopkins University

Research Theme: Mouse allergen exposure, antibody responses, prick skin test response and allergy symptoms in laboratory workers

Current Position: Associate Professor of Pediatrics. Division of Allergy and Immunology,

Department of Pediatrics, Johns Hopkins University

2002-2004 Necole Streeper, MD

Minority Summer Research Program

Research Theme: Physician Underestimation of Self-Management Ability of African-

Americans with Asthma

Current Position: Resident, Dept of Urology, University of Texas HSC, San Antonio, TX

2002-2004 James Lee, MD

Housestaff, Internal Medicine, Johns Hopkins Hospital

Research Theme: Gender Differences in Childhood Asthma

Current Position: Assistant Professor of Medicine, Division of Pulmonary, Allergy and Critical Care Medicine, Hospital of the University of Pennsylvania, Philadelphia, PA

2002-2007 Cecilia Patino, MD

Research Associate, Division of Pulmonary and Critical Care Medicine

Research Theme: (1) Physician Adherence to Asthma Guidelines; (2) Validation of Survey

Methods of Environmental Assessment

Current Position: Assistant Professor, Department of Preventive Medicine, University of

Southern California, Los Angeles, CA

2001-2003 Marianelle Platon, MD

Under-represented Minority Summer Research Program

Research Theme: Validation of Physician Reported Adverse Events during Bronchoscopy

Current Position: Physician, National Navel Medical Center, Bethesda, Maryland

2001-2004 Lucian Davis, MD

Housestaff, Internal Medicine, Johns Hopkins Hospital

Research Theme: Predictors of New-Onset Dyspnea in COPD

Current Position: Assistant Adjunct Professor, Division of Pulmonary and Critical Care

Medicine, University of California, San Francisco, San Francisco.

2001-2005 Susan Gerhardt, MD

Post-Doctoral Fellow, Division of Pulmonary and Critical Care Medicine

Awarded Pearl M. Stetler Research Grant

Research Theme: Treatment of Bronchiolitis Obliterans in Lung Transplant Rejection

Current Position: Private Practice, Pennsylvania

2000-2005 Lewis J. Rubinson, MD

Post-Doctoral fellow, Division of Pulmonary and Critical Care Medicine

Research theme: National Guidelines and Central Venous Catheter Infections in the

Intensive Care Unit

Current Position: Assistant Professor, Division of Pulmonary and Critical Care Medicine,

30

University of Washington, Seattle.

2000-2003 Sande Okelo, MD

Post-Doctoral fellow, Division of Pediatric Pulmonary Medicine

Research theme: Emotional Function and Asthma Morbidity in Children

Awarded NIEHS Minority Supplement Award

Awarded ATS Minority Travel Award

Current Position: Assistant Professor, Department of Pediatrics, David Geffen School of

Medicine at UCLA, Mattel Children's Hospital UCLA, Los Angeles, CA

2000-2004 Nadia N. Hansel, MD, MHS

Post-Doctoral fellow, Division of Pulmonary and Critical Care Medicine

Awarded Howard C. and Jane R. Goodman Award

Awarded the Baurernschmidt Fellowship Award from Eudowood Foundation

Awarded Chest Foundation Award for Women's Studies

Awarded American Thoracic Society Underrepresented Minority Travel Award

Research themes: 1) Quality of Life in Tuberculosis; 2) Th1/Th2 phenotype in tuberculosis and asthma.

Current Position: Associate Professor of Medicine, Johns Hopkins University

1999-2001 Edward Cox, Jr., MD, MPH

MPH student, School of Hygiene and Public Health

Project: Association of Hospital Volume and In-Hospital Mortality among Patients with

Community-Acquired Pneumonia

Current Position: Director, Office of Antimicrobial Products (OAP) Food and Drug

Administration, Rockville, Maryland

1999-2001 Noah Lechtzin, MD, MPH

Post-Doctoral fellow, Division of Pulmonary and Critical Care Medicine

Awarded Travel Award for Poster Presentation at 2001 American Thoracic Society

International Meeting

Research theme: Respiratory manifestations of ALS: 1. Measures of disease burden;

2. Improving patient outcomes.

Current Position: Associate Professor of Medicine, Johns Hopkins University.

1998-2001 Jerry A. Krishnan, MD, PhD

Post-Doctoral fellow, Division of Pulmonary and Critical Care Medicine.

Awarded Chest Foundation Research Award for "Assessment of Gender and Race

Differences in Quality of Care and Clinical Outcomes from Asthma."

Research theme: Quality of care and outcomes for asthma by gender and race

Current Position: Professor of Medicine, University of Illinois, Chicago.

1998-1999 Su Wang

MPH student, School of Hygiene and Public Health

Thesis: Nocturnal Symptoms in Pediatric Asthma: Clinical Features and Health Care

Utilization in a Managed Care Setting

Current Position: Unknown.

1997-2002 Lindy Wolfenden, MD

Housestaff, Internal Medicine, Johns Hopkins Hospital

Post-Doctoral Fellow, Division of Pulmonary and Critical Care Medicine

Research Theme: Older Adults and Asthma

(Deceased.)

# Thesis committees

07/2014	Kamau Peters, Doctoral Candidate in Environmental Health Scoenvces.
	Role: Thesis Advisor and Final Oral Examination Committee Member.
04/2013	María Fernanda Cely-García, Doctoral Candidate, Universidad de Los Andes,
	Bogotá Columbia (Personal exposures to asbestos and respiratory health of automotive mechanics in
	Bogotá, Columbia)
	Role: Thesis advisor and Final Oral Defense Committee Member
04/2010	Deanna M. Green, Doctoral Candidate in Environmental Health Sciences
	Role: Thesis Advisor and Final Oral Defense Committee Member
10/2008	Maura Dwyer, Doctoral Candidate in Environmental Health Sciences
	Role: Final Oral Defense Committee Member
10/2007	Juan Ramos Bonilla, Doctoral Candidate in Environmental Health Sciences
	Role: Final Oral Defense Committee Member
12/2006	Sorina Eftin, Doctoral Candidate in Environmental Health Sciences
	Role: Thesis Committee Chair
04/2005	Laura LaRosa, Doctoral Candidate in Environmental Health Engineering
	Role: Final Oral Defense Committee Member
11/2005	Kannika Taenkhum, Doctoral Candidate in Environmental Health Engineering
	Role: Preliminary Orals Committee Member
12/2005	Sande Okele, Doctoral Candidate in Graduate Training Program in Clinical Investigation
	Role: Final Oral Defense Committee Member
09/2004	Lewis Rubinson, Doctoral Candidate in Epidemiology
	Role: Final Oral Defense Committee Member
03/2003	Ichan Huang, Doctoral Candidate in Health Policy and Management
	Role: Thesis Committee Chair
03/2002	Ichan Huang, Doctoral Candidate in Health Policy and Management
	Role: Preliminary Orals Committee Member
10/2001	Erika Tang, Doctoral Candidate in Epidemiology
	Role: Preliminary Orals Committee Member

# **Editorial Activities**

# Peer review activities

# **Editorial Boards**

2010- Present Member, Clinical Respiratory Journal

2013-Present Member, Journal of Pollution Effects & Control

American Journal of Respiratory and Critical Care Medicine

Archives of Internal Medicine

Archives of Pediatric and Adolescent Medicine

Cancer Epidemiology, Biomarkers & Prevention

Chest

Epidemiology

Expert Opinion on Pharmacotherapy

Health Services Research

Journal of Allergy and Clinical Immunology

Journal of Clinical Outcomes Management

Journal of General Internal Medicine

Journal of Respiratory Diseases

Medical Care

Pediatrics

Preventative Medicine in Managed Care

Quality of Life Research

Thorax

#### **CLINICAL ACTIVITIES:**

#### **Certification:**

MEDICAL LICENSURE Maryland D-47616

#### **BOARD CERTIFICATION**

1991 National Board of Medical Examiners1993 American Board of Internal Medicine

1996, 2006 American Board of Internal Medicine, Pulmonary

Medicine

# <u>Service Responsibilities (specialty, role, time commitment):</u>

Intensive Care Medicine, Attending Physician,
Oncology Center, Pulmonary and Critical Care Service, Attending Physician
Pulmonary Inpatient Medicine, Attending Physician
Barker Inpatient Internal Medicine, Attending Physician
Outpatient Pulmonary Clinic, Attending Physician

# SYSTEM INNOVATION AND QUALITY IMPROVEMENT ACTIVITIES

# System Innovation and Quality Improvement Publications

Please see original research citation numbers 2, 3, 4, 6, 7, 9, 11, 12, 13, 14, 15, 17, 20, 21, 22, 23, 24, 26, 27, 29, 30, 31, 34, 36, 42, 43, 44, 45, 47, 52, 59, 68, 69, 70, 73, 75, 76, 81, 84, 88, 89, 92, 93, 95 and 99.

# System Innovation and Quality Improvement efforts within JHM:

1996-2006 **Initiator and Director**, Bronchoscopy Quality Improvement Project (BRONCHQI), Johns Hopkins Medical Institutions, Baltimore, MD

This highly successful project had many findings, including:

- 1. Documentation of unsafe dosing of lidocaine, which led to a reduction in the strength used from 2% to 1%. Documented no loss of analgesia with the change.
- 2. Identified risk of bleeding complications with lung biopsy
- 3. Documented diagnostic utility of having on-site cytopathology services during needle biopsy cases
- 4. Identified factors associated with patient satisfaction
- 5. Identified excessive pain and reasons for pain during the procedure
- 6. Performed a clinical trial of distraction therapy to reduce pain during the procedure
- 7. Identified predictors of positive diagnostic findings in immune-compromised patients
- 8. Demonstrated benefits of use of atropine pre-procedure to prevent adverse events

1997-2000 **Member**, Committee for Procedure Review, Pulmonary and Critical Care Medicine Procedures, Johns Hopkins Bayview Medical Center, Baltimore, MD

# System Innovation and Quality Improvement efforts outside JHM:

1996-1999 Senior Physician Scientist, Quality Assessment and Improvement Systems Division, Covance Health Economics and Outcomes Services. Washington, D.C.

Dialysis Outcomes Quality Initiative (DOQI): Co-investigator, Medical consultant, NCQA HEDIS hypertension measure: Co-investigator on measure validation

2003 **Member,** Howard County Comprehensive Health Improvement Plan for the Year 2010, Howard County Health Department, Columbia, MD

# National Committee for Quality Assurance

2003 Member, COPD Technical Subgroup

2004-Present Member, Clinical Expert Panel

2008 Member, National Committee for Quality Assurance (NCQA) Advisory Panel. HEDIS

Trends Publication Expert Advisory Panel.

# Production of guidelines and/or protocols:

2002 American Healthways/Johns Hopkins

2nd Annual Disease Management Outcomes Summit: Standard Outcome Metrics and Evaluation Methodology for Disease Management Programs, November 7-10, 2002, Palm Desert, CA. Role: Physician Steering Committee. The outcome metrics remain intact to date.

# System Innovation and Quality Improvement Program Building/Leadership:

N/A

# System Innovation and Quality Improvement Extramural Funding

12/26/2003-01/30/2011 Evaluation of home automated tele-management in COPD.

R01 AI070630

NIH

Annual Direct: \$225,000

PI: Finkelstein

Role: Co-Investigator, 0.60 calendar months

09/10/2001-08/31/2006 Improving physician adherence to asthma guidelines

K23 HL04266

NIH

Annual Direct \$146,772

Role: Principal Investigator, 9.0 calendar months

Provide mentored training and research period for early career development.

Improve physician adherence to national asthma guidelines

9/01/2002-08/31/2007 Improving Respiratory Outcomes in ALS

K23 HL67887 (Lechtzin)

NIH

Annual Direct \$121,750

PI: Lechtzin

Role: Advisor (effort as needed)

The overall theme of this award is to study various aspects of non-invasive positive pressure ventilation in patients with ALS with the goal of improving

respiratory management of these patients.

2007-2008 (NCE) Howard/Hopkins Center for Reducing Asthma Disparities

HL072455 NIH/NHLBI

Annual Direct \$513,475

PI: Rand

Role: Leader, Project 1, 1.5 calendar months, no cost extension

This application presents four research projects designed to collaboratively investigate factors associated with the disproportionate burden of asthma

experienced by inner-city, African-American children and adults.

09/30/2004-06/30/2008 Improving asthma care for minority children in Head Start

R18 HL73833

NIH

Annual Direct \$625,506

PI: Rand

Role: Co-Investigator, 0.6 calendar months

The goal of this project is to study the effect communication intervention on asthma-related morbidity and mortality among low-income African American

children.

#### **ORGANIZATIONAL ACTIVITIES**

# **Institutional Administrative Appointments**

1995-1997 Initiator and Coordinator, Pulmonary and Critical Care Epidemiology Seminar,

Johns Hopkins University, Baltimore, MD

1996-present Initiator and Director, Bronchoscopy Quality Improvement

Project (BRONCHQI), Johns Hopkins Medical Institutions,

Baltimore, MD

1997-2000 **Member**, Committee for Procedure Review, Pulmonary and

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	Critical Care Medicine Procedures, Johns Hopkins Bayview Medical Center, Baltimore, MD
1999-present	<b>Member,</b> Education Committee, Pulmonary and Critical Care Medicine, Johns Hopkins University School of Medicine, Baltimore, MD
1999-present	<b>Member,</b> Research Committee, Pulmonary and Critical Care Medicine, Johns Hopkins University School of Medicine, Baltimore, MD
1999-2006	<b>Chair,</b> Conference Committee, Pulmonary and Critical Care Medicine, Johns Hopkins University School of Medicine, Baltimore, MD
1999-present	<b>Member</b> , Internship Selection Committee, Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD
1999-present	<b>Member</b> , Fellowship Selection Committee, Division of Pulmonary and Critical Care Medicine, Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD
2001-present	<b>Member,</b> Fellow Review Committee, Division of Pulmonary and Critical Care Medicine, Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD
2003	<b>Member,</b> Howard County Comprehensive Health Improvement Plan for the Year 2010, Howard County Health Department, Columbia, MD
2003-present	<b>Member</b> , Faculty Development Committee, Division of Pulmonary and Critical Care Medicine, Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD
2005	<b>Member</b> , Curriculum Reform Committee Meeting, Johns Hopkins School of Medicine, Baltimore, MD
2009-present	<b>Member</b> , Planning Committee, CME Activity – Medical Grand Rounds, Johns Hopkins School of Medicine, Baltimore, MD
2011-present	<b>Director</b> , Obstructive Lung Disease Program, Division of Pulmonary and Critical Care Medicine
2013	Member, Panel Presentation/Discussion: "writing a successful career development application. Johns Hopkins Professional Development Office, September 25. 2013.
2014	Ad hoc Committee for a Department of Biostatistics faculty member's promotion to Associate Scientist.

# **Professional Societies**

Associate, American College of Physicians (ACP) Fellow, American College of Chest Physicians (ACCP) Member, American Thoracic Society (ATS)

Member, American Federation for Clinical Research (AFCR)

Member, Central Society for Clinical Research (CSCR)

Member, International Society of Environmental Epidemiology

# **Committee Memberships**

# American Academy of Allergy, Asthma and Immunology

2003-Present Member, Genetics and Epidemiology

# **American Thoracic Society**

-	can incracie	society
	1999-2006	Course Faculty Member, Education: Methods in epidemiologic, clinical and
		operations research (MECOR).
	2002-Present	Member, Behavioral Science Assembly Long Range Planning Committee
	2003-Present	Member, Behavioral Science Assembly Program Committee
	2003-2004	Chair Elect, Behavioral Science Assembly Program Committee
	2003	Member, IRE/MECOR Planning Retreat Committee
	2004-2005	Chair, Behavioral Science Assembly Program Committee
	2006-2008	Chair, Behavioral Science Assembly
	2006-2008	Member, ATS Board of Directors
	2008-2009	Chair, Behavioral Science Assembly Nominating Committee
	2008-2010	Member, Environmental and Occupational Heath Assembly, Clinical Research
		Committee
	2008-2010	Member, Environmental and Occupational Heath Assembly Program Committee
	2008-2010	Member, Environmental and Occupational Health Assembly Working Group on
		Epidemiology
	2008-2009	Mentor Member, Members in Transition and Training Committee
	2009-2011	Member, Grant Review Committee for ATS Foundation-Tobacco-dependence
		research fund grant.
	2010-2015	Member, Drug/Device Discovery and Development Committee
	2013-2014	Member, Behavioral Science Assembly Planning Committee
	2013-2014	Member, Behavioral Sciences and Health Services Research Assembly Nominating
		Committee

# National Committee for Quality Assurance

2003	Member, COPD Technical Subgroup
2004-Present	Member, Clinical Expert Panel

# Pennsylvania Department of Health

2004	Member, Grant Review Committee, Centers of Excellence for Research on Lung
	Disease Review Panel. Washington, DC.
2010-2011	Member, Pennsylvania Final Performance Review, Master Tobacco Settlement for
	the Pennsylvania Department of Health, 09-10 Cycle B
e of Maryland	

2006-2007	Member, Governor-elect Martin O'Malley's Transition Committee, State of
	Maryland, Department of Health and Mental Hygiene, December, 2006 to January,
	2007.

# Clinical Trials & Surveys Corp (C-TASC)

2009-present Member, Institutional Review Board

# **Qatar National Research Fund**

2010-present Reviewer, National Priorities Research Program

# Netherlands Asthma Foundation

2012-present Member, Grant Review Section

# Conference Organizer, Session Chair (see also Classroom Instruction, pages 19-20)

2003 Chair, American Thoracic Society International Conference Session: Assessing Patient Health, Healthcare and Outcomes: Limits of Physician Estimation

Facilitator, American Thoracic Society International Conference Session: Environmental and Genetic Risk Factors for Pediatric Lung Disease.

Chair, American Thoracic Society International Conference Symposium: Impact of Psychosocial Factors on Respiratory Health.

2004 Chair, American Thoracic Society International Conference Symposium: Assessing Asthma Severity and Asthma Control According to National Guidelines: Are our Assessments Working?

Chair, American Thoracic Society International Conference Symposium: Diagnosis and Outcomes in Pediatric Asthma.

Chair, American Thoracic Society International Conference Symposium: Pediatric Asthma.

2005 Chair, American Thoracic Society International Conference Symposium: Health Disparities: Understanding and Addressing Them through Research and Practice.

Chair, American Thoracic Society International Conference Symposium: Implementation of Asthma Severity Measurements in the Real World of Clinical Practice: What Are We Doing Now and What Should Come Next?

- 2006 Chair, American Thoracic Society International Conference Symposium: The Complex Interaction of Race, Stress and Neighborhood on Respiratory Disease. May 21, 2006.
- 2007 Chair, American Thoracic Society International Conference Symposium: Current Methods for the Respiratory and Environmental Researcher: A Toolkit for Clinical Investigation

Chair, American Thoracic Society International Conference Symposium: Scientific Writing: How to Publish for Academic Success.

Chair, American Thoracic Society International Conference: Assembly on Behavioral Science Membership Meeting.

2008 Chair, American Thoracic Society International Conference Symposium: Introduction to Data Analysis: Exploring the Great Unknown.

Chair, American Thoracic Society International Conference Symposium: Asthma Severity Versus Asthma Control: What Should We Use in Clinical Practice?

2009 Chair, American Thoracic Society International Conference Symposium: Measuring and Improving the Quality of Care in Lung Disease.

Facilitator, American Thoracic Society International Conference Symposium: Developing Surveys that Measure or Predict.

Facilitator, American Thoracic Society International Conference Symposium: Asthma in the Inner City: A Unique Mix of Allergen and Pollutant Exposures.

2010 Chair, American Thoracic Society International Conference, Poster Session Discussion, New Orleans

Chair, American Thoracic Society International Conference, Scientific Symposium: Individual susceptibility to air pollution.

Chair, American Thoracic Society International Conference, Scientific Symposium: Asthma disparities: Root causes and global solution

- 2013 Chair, American Thoracic Society International Conference, EOH Program Committee
- 2013 Chair/Moderator, American Thoracic Society International Conference, Poster Session Discussion, Pollution Effects, Philadelphia
- 2013 Discussant, American Thoracic Society International Conference, Poster Session Discussion, Obesity: Impact on lung function and disease, Philadelphia
- 2013 Chair, Scientific Symposium: Developmental origins of asthma and allergies: Environment, modifiers and mediators, American Thoracic Society International Meeting, Philadelphia, May 2013.
- 2015 Chair, Scientific Symposium: Advances in Understanding and Reducing Asthma Disparities, American Thoracic Society International Meeting, San Diego, May 2015.

# **Advisory Committees, Review Groups**

2001-2006	American Lung Association
	Member, National Grants Review Award Selection Committee

- 2002 American Healthways/Johns Hopkins 2nd Annual Disease Management Outcomes Summit: Standard Outcome Metrics and Evaluation Methodology for Disease Management Programs, November 7-10, 2002, Palm Desert, CA, Role: Physician Steering Committee
- 2003 American Healthways/Johns Hopkins 3<sup>rd</sup> Annual Disease Management Outcomes Summit: Defining the Patient-Physician Relationship for the 21<sup>st</sup> Century, October, 2003, Phoenix, AZ. Role: Physician Steering Committee

Member, Aventis AVE0547 HE Asthma Advisory Board

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2004	American Healthways/Johns Hopkins 4 <sup>th</sup> Annual Disease Management Outcomes Summit: Outcomes-Based Compensation: Pay-for-Performance Design Principles, November 11-14, 2004, Rancho Mirage, CA, Role: Physician Steering Committee
	Member, DEY, LP, Managed Care Advisory Board, Napa, CA.
2005	American Healthways/Johns Hopkins 5 <sup>th</sup> Annual Disease Management Outcomes ummit: Improving Care Coordination through Physician-Disease Management Collaboration, November 10-13, 2005, Fort Lauderdale, Florida, Role: Physician Steering Committee
	Invited Faculty representing ATS, National Workshop to Reduce Asthma Disparities, Chicago, Illinois
2006	American Healthways/Johns Hopkins 6 <sup>th</sup> Annual Disease Management Outcomes Summit: Embracing Health: Tools and Systems for Health Promotion and Disease Prevention, November, 2006, JW Marriott Starr Pass Resort, Tucson, AZ, Role: Physician Steering Committee
	Member, NIH/NHLBI Grant Review Award Selection Committee
	Member, NHLBI Strategic Planning Process Committee
2007	American Healthways/Johns Hopkins 7 <sup>th</sup> Annual Disease Management Outcomes Summit: Integrated Medicine: Complementary Approaches, November 8-11, 2007, Austin, Texas, Role: Physician Steering Committee
2008	Reviewer, ad hoc, Deuthsche Forschungsgemeinschaft (German Research Foundation).
	Member, Cancer, Cardiovascular and Pulmonary Disease (CCPD) program. The Amendment 25 Program Evaluation Group.
	Member, National Committee for Quality Assurance (NCQA) Advisory Panel. HEDIS Trends Publication Expert Advisory Panel.
2008	Member, EXPORT's P60 Advisory Board, University of Puerto Rico (UPR)/CHA Research presentCenter of Excellence: Making a Difference for Latino Health. San Juan, Puerto Rico.
2008	Chair, The Donaghue Program for Research Leadership, Hartford, CT.
2009	Member, NIH/NHLBI Study Section for Patient Oriented Research (K23, 24, and 25).
2009	Member, NIH/NIAID Review Panel for Special Emphasis Study Section ZAI1-RRS-I-M1.
2010	Discussant, NIH/NIAID, Asthma, Allergy and Inflammation Branch: Asthma Outcomes Workshop, Bethesda, MD.
2011	Member, NIH/NHLBI Review Panel for Small Business Respiratory Sciences, Special Emphasis Study Section, ZRG1 CVRS-H (10) B (K12)

2011	Member, NIH/NHLBI Review Panel for NHLBI Career Development Programs in Emergency Medicine Research (K12).
2011	Chair, NIH/NHLBI Review Panel for RFA-HL-12-011, Development and testing of a case finding methodology in COPD (R01), Washington, DC
2012	Discussant, Webinar Presentation, NIEHS, Virtual Forum: Childhood Obesity and the Environment, November 2012. Research Triangle Park, NC

# Consultancies

Aventis 2002; Physician Advisory Panel

Cardiocontinuum, 1999-2000; Role: Development of COPD Program

American Healthways, 2002-Present; Role: Steering Committee Member and Performance Measure Development

Sorption Technologies, Inc., 2004-Present; Role: Research Design Consultant

Interactive Forums, Inc., 2004-Present; Role: Health Care Consulting

Merck, Beta-agonist Measure Panel Meeting, December 3, 2004, Denver, Colorado.

Pfizer Academic Round Table, May 24-25, 2005, American Thoracic Society, San Diego, California.

# RECOGNITION

# Awards, honors

1986	English Degree awarded with Honors, University of Pennsylvania
1986	BA, Magna cum Laude, University of Pennsylvania
1986	BS, Magna cum Laude, University of Pennsylvania
1997	Delta Omega Public Health Honor Society
2000	Solo Cup Clinician Scientist Award
2001	GlaxoSmithKline Development Partners' Junior Faculty Award
2009	Qforma's List of Most Influential Doctors, created for USA Today.
2010	Pfizer Visiting Professorship in Pulmonology. East Tennessee State University College of Public Health.

# Invited Talks, Panels

- 1993 The Special Value of Undergraduate Research. Presented at the 64th Annual Meeting of the Eastern Psychological Association. Arlington, Virginia.
  - PSA as a Screening Test? Medical Management Conference. Department of Internal Medicine, University of Pennsylvania.
- 1994 Carbon Monoxide Poisoning, Medical Management Conference, Department of Internal Medicine, University of Pennsylvania.
  - Invited Discussant, Morbidity and Mortality Conference, Department of Internal Medicine, University of Pennsylvania.
- 1996 Vitamins and the Risk of Lung Cancer: Randomized Clinical Trials as a Gold-Standard, Longcope Attending Rounds, Department of Internal Medicine, The Johns Hopkins University School of Medicine.
  - PSA and DRE Screening for Prostate Cancer: Principles of Screening, Longcope Attending Rounds, Department of Internal Medicine, Johns Hopkins University School of Medicine.
- 1997 Predictors of overuse of inhaled β-agonists, underuse of inhaled corticosteroids, and of nocturnal symptoms in adult asthmatics. Outcomes research group, Merck & Co., Inc., West Point, PA.
  - Associations of misuse of asthma medications in adult asthmatics enrolled in managed care. Managed Care Health Care Consortium, Washington, DC.
  - Misuse of corticosteroid and  $\beta$ -agonist metered dose inhalers (MDIs) among adult asthmatics in managed care (MCOs), Maryland Thoracic Society Annual Research Dinner, Baltimore, MD.
- 1998 Treatment patterns among adult asthmatics: Overuse of inhaled beta-agonists, underuse of inhaled corticosteroids, Division of Pulmonary and Critical Care Medicine, Yale University School of Medicine, New Haven, CT.
  - Treatment patterns among adult asthmatics: Overuse of inhaled beta-agonists, underuse of inhaled corticosteroids, Division of General Internal Medicine, Case Western University School of Medicine, Cleveland, OH.
  - Misuse of corticosteroid and β-agonist metered dose inhalers (MDIs) among adult asthmatics in managed care (MCOs), Combined Allergy and Immunology Meeting, Palm Beach, FL.
  - Future HEDIS Measures for Asthma. Glaxo-Wellcome Asthma Managed Care Consultants Program. Naples, FL.
  - Asthma Therapy Assessment Questionnaire: Results of a Validation Study, Blue Plus, Minneapolis, MN.
- 1999 Bronchoscopy Quality Improvement Project: A Hospital Based Cohort Study. Health Services Research and Development Research Seminar.

Lesson Learned from Studies of Asthma in Managed Care. Best Practices Symposium sponsored by the Pacific Business Group on Health, Oakland, California.

Quality of Care and Guidelines: Management of Asthma. Practice Guidelines Workshop. Johns Hopkins Medical Services Corporation, Baltimore, MD, November 1999 and May 2000.

2000 Asthma Care by Asthma Specialists. Department of Medicine Grand Rounds. Greater Baltimore Medical Center, Baltimore, MD.

Predictors of Outcomes in Asthma. Frontiers in Research and Clinical Management of Asthma and Allergy Conference. Johns Hopkins Asthma & Allergy Center, Baltimore, MD.

Update in Asthma. Update in Pulmonary and Critical Care Medicine, Johns Hopkins University, Santa Fe, NM.

Fine-tuning your Bronchoscopy Practice. Bronchoscopy Workshop. Johns Hopkins University, Santa Fe, NM.

Underuse of Inhaled Corticosteroids in Asthma. Department of Medicine Grand Rounds, Johns Hopkins University, Baltimore, MD.

Nocturnal Asthma: Impact on Children and Their Parents. Research Conference of the Center for Childhood Asthma in the Urban Environment, Johns Hopkins University, Baltimore, MD.

Bronchoscopy Quality Improvement Project: Design Issues and Results. Robert Wood Johnson Clinical Scholars Program, Johns Hopkins University, February 1998 and April 2000.

2001 COPD- The Role of Steroids. Maryland Thoracic Society 41<sup>st</sup> Annual Meeting and Scientific Session, Pulmonary and Critical Care Medicine: State-of-the-Art, Baltimore, MD.

Update in Asthma. Johns Hopkins Bayview Medical Center, Department of Medicine, Baltimore, MD.

Severity, Control and Nocturnal Symptoms of Asthma in Children. Research Conference, Division of Pediatric Pulmonary Medicine, Johns Hopkins University. Baltimore, MD.

- 2002 Non-pharmacologic pain control with Bedscapes for Bronchoscopy. American Red Cross, Arlington, VA.
- 2003 Annual High Sierra Critical Care Conference; Update in Asthma Management for 2003.

Annual High Sierra Critical Care Conference; How to get the most from your bronchoscopy practice.

Office of Community Health, Community Chats 2002-2003.

Burnt Pizza and Near-Death from Asthma. Department of Internal Medicine Grand Rounds, Johns Hopkins Bayview Medical Center, Baltimore, Maryland.

Using Functional Genomics to Understand Complex Lung Disease, ATS/NHLBI.

Aligning Asthma Care with Assessment of Severity, Healthcare Quality and Safety Research Seminar Series, JHU.

Asthma Epidemiology, World Allergy Organization (WAO), Vancouver.

Aligning Asthma Care with Assessment of Severity. Pulmonary and Critical Care Grand Rounds, Oregon Health Services University.

2004 Office of Community Health, Community Chats 2003-2004; Impact of Night Time Asthma on Children and their Families Effective Asthma Medication.

The Role of the Indoor Home Environment in Childhood Asthma. Johns Hopkins-Barbados Genetic Epidemiology of Obstructive Lung Disease Research Conference, Almond Bay, Hastings, Christ Church, Barbados.

Environmental Factors Impacting Respiratory and Immunologic Disease. Gulf Coast Pediatric Environmental Health Symposium, Baylor College of Medicine, Houston, Texas.

Aligning Asthma Care with Estimates of Asthma Severity: Development of the Asthma Communication Instrument. Research Conference, Division of Pulmonary and Critical Care Medicine, Department of Pediatrics, Johns Hopkins University, Baltimore, Maryland.

Epidemiology as a Tool for Understanding Respiratory Disease: Case-Control Studies, American Thoracic Society, Orlando, Florida.

Standardizing the Care of the Patient with COPD: Is the Quality of Care Truly Improved? American Thoracic Society, Orlando, Florida.

Getting the Most Out of Bronchoscopy Services, 6<sup>th</sup> Annual Update, Pulmonary and Critical Care Medicine, Santa Rosa, California.

Severe Asthma: Current and Future Management, 6<sup>th</sup> Annual Update, Pulmonary and Critical Care Medicine, Santa Rosa, California.

2005 Office of Community Health, Community Chats 2005-2006. The Growing Child and Other Health Issues: Impact of Night-Time Asthma on Children and Their Families

Office of Community Health, Community Chats 2005-2006; Lung Disease: Making the Home Safer for Asthmatics.

Health Care Communications and Cultural Competency, National Workshop to Reduce Asthma Disparities, Chicago, Illinois.

The Home Environment of East Baltimore Preschool Children With and Without Asthma, Department of Physiology, Bloomberg School of Public Health, Johns Hopkins University.

COPD: A Pragmatic Approach to Improving Outcomes. Baltimore, Maryland.

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COPD: A Pragmatic Approach to Improving Outcomes. COPD Exchange, Pittsburgh, Pennsylvania.

COPD: Evolving Concepts of Therapy. COPD Exchange, Baltimore, Maryland.

Aligning Asthma Care with Assessment of Severity and Control in Practice. Department of Internal Medicine, York Hospital, York, Pennsylvania.

Office of Community Health, Community Chats 2005-2006; Treating Asthma in Children, New Psalmist Christian School, Baltimore, Maryland.

The Role of the Indoor Home Environment in Childhood Asthma. Johns Hopkins-Barbados Asthma Conference, Almond Bay, Hastings, Christ Church, Barbados.

Is it Smart to Prescribe Long-Acting β-Agonists for Patients with Asthma? Division of Allergy and Clinical Immunology, Johns Hopkins University. December 2, 2005; and Rush University, Chicago, Illinois.

Aligning Asthma Care with Assessment of Severity and Control in Practice. Primary Care Conference, Baltimore, Maryland, February 24, 2006; Ohio State Pulmonary Grand Rounds, April 7, 2006; and Hospital of the University of Pennsylvania. January 25, 2008.

2006 Aligning Asthma Care with Assessment of Severity and Control in Practice. American Lung Association, Chicago, Illinois.

Should We Still use Long-acting Beta-Agonists in Patients with Asthma? Johns Hopkins University, School of Medicine, Department of Medicine Grand Rounds.

Development of the Asthma and Control Communication Instrument. University of Maryland, Pulmonary Research Conference, Baltimore, MD.

Update in COPD. Baltimore-Washington Hospital, Department of Medicine Grand Rounds. Glen Burnie, Maryland.

Issues Related to Beta-2 Agonist Therapy; Polymorphisms/Clinical Outcomes/Adverse Events Profile. 20<sup>th</sup> Annual Update. Frontiers in Research and Clinical Management of Asthma and Allergy: From Bench to Bedside. Johns Hopkins University School of Medicine, Division of Allergy and Clinical Immunology, Johns Hopkins Asthma & Allergy Center at Johns Hopkins Bayview Medical Center, Baltimore, Maryland.

2007 Office of Community Health, Community Chats 2007-2008; Asthma: How Asthmatics Can Make Their Home Safer; Effective Asthma Medication.

Hyperinflation in COPD Linking Physiology to Patient Experience. Boehringer-Ingelheim Pharmaceuticals, Inc, Christiana Care Hospital, Newark, Delaware.

Environmental Issues in Managing Asthma. 41<sup>st</sup> Respiratory Care Journal Conference. Scottsdale, Arizona, September 28, 2007.

Translational Science Think Tank. Collaborative Research Bridging Basic, Clinical and Health Services Domains: Challenges and Opportunities." University of Connecticut Health Center, Farmington, CT, December 6, 2007.

2008 NCQA On-line Program: Best Practices in COPD Treatment. Course Faculty. December 2007-December 2008.

Approaching and Garnering the Support of Community Partners for Community-Based Research. American Thoracic Society International Meeting.

Logistic Regression. American Thoracic Society International Meeting Post-graduate Course.

Assessing Control is Good, But Not Sufficient for Management of Asthma. American Thoracic Society International Meeting Scientific Symposium.

The Death of Primary Care. Barker Grand Rounds, Johns Hopkins University, Baltimore, Maryland.

Is Genetic Polymorphism important in response to asthma therapy? Johns Hopkins 21<sup>st</sup> Update Frontiers in Research and Clinical Management of Asthma and Allergy. Johns Hopkins Asthma and Allergy Center, Baltimore, Maryland.

Joint Indo-US Workshop on Environmental Risks of Respiratory Disease. Prevalence of Respiratory Disease in India. Chandigarh, India.

Bridging the Evidence-to-Practice Gap in Asthma and Chronic Obstructive Pulmonary Disease from a National and International Perspective: An Update. American Thoracic Society International Meeting, San Diego, CA.

2009 Diet and inner city asthma: Is there a connection? Department of Medicine Grand Rounds, Johns Hopkins University, Baltimore, MD.

Role of indoor pollutants in respiratory disease. Fellows Orientation Conference, Division of Allergy and Clinical Immunology, Johns Hopkins University, Baltimore, MD.

Susceptibility determinants of childhood asthma. Session: Contributing factors that influence the relationship between environmental exposures and children's health. Pediatric Academic Societies Annual Meeting, Baltimore, MD.

Scientific Advisory Committee, Merck Childhood Asthma Network, Washington, DC.

Pediatric Asthma Roundtable meeting-Improve lives of children with asthma in the Baltimore area. National Asthma Campaign, Baltimore, MD.

2010 Topics in Clinical Medicine 2010. Session: Meet the Professor—Pulmonary. Johns Hopkins University Annual Topics in Clinical Medicine, Baltimore, MD.

Validated questionnaires in the management of allergic disorders: Applications and interpretation. Johns Hopkins Community Physicians, Baltimore, MD.

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Validated questionnaires in the management of allergic disorders: Effective Use in an Allergy Practice Setting. Session: State-of-the-Art Session 2525: American Academy of Allergy, Asthma and Immunology International Meeting, New Orleans, LA.

Indoor environmental exposures and asthma disparities. Scientific Symposium: Asthma disparities: Root cause and global solution. American Thoracic Society International Meeting, New Orleans, LA.

2010 Speaker: Environmental Issues in Managing Asthma. Post-Graduate Respiratory Medicine Meeting, Irish Lung Foundation, Dublin, Ireland. June 2010.

Speaker, Asthma Update Seminar. Eastern Shore AHEC, Hyatt Regency Chesapeake Bay, Cambridge, Maryland. August 2010.

Academy of Industrial Hygiene, PCIH 2010. Fort Worth, Texas, October 7-8, 2010

21st Century Toxicity Testing and Human Health Risk Assessment for Environmental Agents.

Speaker: (1) "Lung responses to environmental toxins"

Speaker: (2) "Environmental residential exposures to allergens and irritant gases"

Speaker: (3) "Role of Pulmonary and Respiratory Irritants in Asthma, COPD, and Bronchiolitis Obliterans"

Speaker: "Is diet driving the asthma epidemic?" NIEHS/EPA Conference, Protecting children's health for a lifetime: Environmental health research meets clinical practice and public policy conference, October 19-20, Washington, DC

Speaker: Environmental Health Department Doctoral Seminar, Boston University, October 22, 2010. "The role of indoor pollutants and allergens and asthma in inner city children: Some of the bad ingredients in a toxic stew."

Participant, Workshop: Task Force for the Asthma Disparities Working Group/Federal Task Force on Environmental Health Risks and Safety Risks to Children Steering Committee, "Developing a coordinated federal action plan to reduce asthma disparities." NIH-NHLBI/EPA/HUD. Washington, DC. December 16-17, 2010.

Visiting Professor, Leading Voices in Public Health Lecture Series. "The mouse, the house and the hamburger: Making sense of the asthma epidemic." The College of Public Health and the Public Health Student Association, East Tennessee State University, March 3, 2011.

Lecturer, Teaching Course entitled Health Care Organization and Delivery: "Indoor environmental exposures and asthma disparities." East Tennessee State University, March 3, 2011.

Lecturer, Teaching Course entitled Introduction to Air Pollution: "Asthma and Air Pollution." East Tennessee State University, March 4, 2011.

Invited Speaker: U.S. Congress Briefing, Preventing Breast Cancer and Pediatric Asthma: Links to the Environments of Women and Children, Rayburn House Office Building B-354 NIH/NIEHS. "The Mouse, the House and the Hamburger: Making Sense of the Asthma Epidemic." April 21, 2011.

Invited Speaker-Panelist: Clearing the Air, Addressing asthma disparities in Maryland.

Session A-3: "Asthma Interventions: Research into Practice," and

Session B-4: "The human side of asthma: Educating patients to make health decisions—overcoming barriers to medication adherence." Linthicum, MD. June 2011.

Invited Speaker: National Healthy Homes Conference. Track 7: Just the Facts. Session 7H-2. "Nanoparticles and nitrogen dioxide from stoves: Health effects and strategies to reduce exposure and improve asthma control." Denver, CO. June 2011.

2012 Visiting Professor, Division of Pulmonary Medicine, Allergy and Immunology Children's Hospital of Pittsburgh of UPMC, Pittsburgh, PA, January 5, 2012.

Invited Speaker, Pediatric Pharmacology Division, National Jewish Health. "The house, the mouse and the hamburger: Making sense of the asthma epidemic." Denver, CO, June 2012.

Invited Speaker, Johns Hopkins Bloomberg School of Public Health/The Maryland Department of Health and Mental Hygiene/The mid-Atlantic Public Health Training Center. "Reducing asthma disparities in children: A model program with promising results. Baltimore, MD, June 2012.

Invited Speaker, EPA/NIEHS Children's Centers 2012 Webinar Series, Protecting children's health for a lifetime. "Role of home environment and diet on childhood asthma." December 2012.

2013 Visiting Professor, "The house, the mouse and pizza: Explaining the asthma epidemic." Universidad de Los Andes, Bogota, Columbia, April 2013.

Invited Speaker, Scientific Symposium: Developmental origins of asthma and allergies: Environment, modifiers and mediators, "Indoor exposures and ETS." American Thoracic Society International Meeting, Philadelphia, PA. May 2013.

Invited Speaker, Congressional Briefing, Health and Medicine Counsel of Washington. "Protecting children's health for a lifetime: How the environment influences health and development," hosted by Senator Kirsten E. Gillibrand, 385 Russell Senate Office Building. Sponsored by Friends of NIEHS, the American Academy of Pediatrics, and the Children's Environmental Health Network. October 2013.

Invited Lecturer, Johns Hopkins University School of Nursing, "Diagnosis, Symptom, and Illness Management I – Adult Course." Topic: Asthma. December 2013.

2014 Invited Lecturer and participant, NIH – MOST Clinical and Translational Science Workshop, NIH Campus, Stone House, Bethesda, MD, July 21-22, 2014.

Invited Speaker, Respiratory Expert Forum Ireland, "Beat the Professor" Case Studies on treating difficult airways disease, Dublin, Ireland, October 17-18, 2014.

2015 Invited Speaker, The Children's Environmental Health Network's 2015 CEHN Pediatric Research Conference Children: Food and Environment, "Prevention and Treatment of Asthma with Diet: Progress and Promise." The University of Texas at Austin, Austin, TX. February 4-6, 2015.

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Invited Speaker, Scientific Symposium: Advances in Understanding and Reducing Asthma Disparities, "Indoor Exposures and Asthma Disparities." American Thoracic Society International Meeting, San Diego, CA. May 2015.

Office of Community Health, Community Chats 2015-2016; Asthma: "How People With Asthma Can Make Their Homes Safer."

Office of Community Health, Community Chats 2015-2016; Asthma: "Does Diet Affect Asthma?"

# APPENDIX D

## Case 3:16-md-02738-MAS-RLS Document 9737-8 Filed 05/07/19 Page 116 of 516 PageID: 38816

### Gregory Diette, MD, MHS

Diette publications, continued, after June 2017

- 1. Brigham EP, Steffen LM, London SJ, Boyce D, **Diette GB**, Hansel NN, Rice J, McCormack MC. Diet Pattern and Respiratory Morbidity in the Atherosclerosis Risk in Communities Study. *Annals of the American Thoracic Society*. 2018; 15(6).
- 2. Brigham EP, Matsui EC, Appel LJ, Bull DA, Curtin-Brosnan J, Zhai S, White K, Charleston JB, Hansel NN, **Diette GB**, McCormack MC. A pilot feeding study for adults with asthma: The healthy eating better breathing trial. *PLOS ONE*. 2017; 12(7).
- 3. Cloutier MM, Salo PM, Akinbami LJ, Cohn RD, Wilkerson JC, **Diette GB**, Williams S, Elward KS, Mazurek JM, Spinner JR, Mitchell TA, Zeldin DC. Clinician Agreement, Self-Efficacy, and Adherence with the Guidelines for the Diagnosis and Management of Asthma. *The Journal of Allergy and Clinical Immunology: In Practice*. 2018; 6(3): 886-894.
- 4. Lin SY, Azar A, Suarez -Cuervo C, **Diette GB**, Brigham E, Rice J, Ramanathan M, Gayleard J, Robinson KA. The Role of Immunotherapy in the Treatment of Asthma. *AHRQ Comparative Effectiveness Reviews*, *No.* 196. 2018.
- 5. Lin SY, Azar A, Suarez-Cuervo C, **Diette GB**, Brigham E, Rice J, Ramanathan Jr. M, Robinson KA. Role of sublingual immunotherapy in the treatment of asthma: An updated systematic review. *International Forum of Allergy and Rhinology*. 2018; 8(9): 982-992.
- 6. McCormack MC, Paulin LM, Gummerson CE, Peng RD, **Diette GB**, Hansel NN. Colder temperature is associated with increased COPD morbidity. *European Respiratory Journal*. 2017; 49(6).
- 7. Nnodum BN, McCormack MC, Putcha N, Hwang S, Paulin LM, Brigham EP, Fawzy A, Romero K, **Diette GB**, Hansel NN. Impact of Physical Activity on Reporting of Childhood Asthma Symptoms. *Lung*. 2017; 195(6): 693-698.
- 8. Paulin LM, Williams DL, Peng R, **Diette GB**, McCormack MC, Breysse P, Hansel NN. 24-h Nitrogen dioxide concentration is associated with cooking behaviors and an increase in rescue medication use in children with asthma. *Environmental Research*. 2017; 159: 118-213.
- 9. Rice JL, **Diette GB**, Suarez-Cuervo C, Brigham EP, Lin SY, Ramanathan Jr. M, Robinson KA, Azar A. Allergen-Specific Immunotherapy in the Treatment of Pediatric Asthma: A Systematic Review. *Pediatrics*. 2018; 141(5).
- 10. Rice JL, Brigham E, Dineen R, Muqueeth S, O'Keefe G, Regenold S, Koehler K, Rule A, McCormack M, Hansel NN, **Diette GB**. The feasibility of an air purifier and secondhand smoke education intervention in homes of inner city pregnant women and infants living with a smoker. *Environmental Research.* 2018; 160: 524-530.
- 11. Sulaiman I, Greene G, MacHale E, Seheult J, Mokoka M, D'Arcy S, Taylor T, Murphy DM, Hunt E, Lane SJ, **Diette GB**, FitzGerald JM, Boland F, Bhreathnach AS, Cushen B, Reilly RB, Doyle F, Costello RW. A randomized clinical trial of feedback on inhaler adherence and technique in patients with severe uncontrolled asthma. *European Respiratory Journal*. 2018; 51(1).

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### Gregory Diette, MD, MHS

Diette publications, continued, after June 2017

- 12. Wu TD, Eakin MN, Rand CS, Brigham EP, **Diette GB**, Hansel NN, McCormack MC. In-Home Secondhand Smoke Exposure Among Urban Children With Asthma: Contrasting Households With and Without Residential Smokers. *Journal of Public Health Management and Practice*. 2018; 25(2): E7-E16.
- 13. Wu TD, Brigham EP, Peng R, Koehler K, Rand C, Matsui EC, **Diette GB**, Hansel NN, McCormack MC. Overweight/obesity enhances associations between secondhand smoke exposure and asthma morbidity in children. *The Journal of Allergy and Clinical Immunology: In Practice*. 2018; 6(6): 2157-2159.

### 14. POSTER DISCUSSION SESSION:

Nnodum BN, Hwang S, Romero K, Kineza C, Tariq Z, Peng R, Putcha N, McCormack MC, Diette GB, Hansel NN. Impact Of Physical Activity On Childhood Asthma Symptoms: Longitudinal Study In Inner City Baltimore, Maryland. *Poster Discussion Session/Wednesday May 24 2017/Walter E. Washington Convention Center* 

### 15. POSTER DISCUSSION SESSION:

Wu TD, Eakin M, Rand CS, Brigham E, Diette GB, Hansel NN, McCormack MC. Factors Associated with In-Home Secondhand Smoke Exposure from External Sources in Urban Children with Asthma. *Poster Discussion Session/Sunday May 20/San Diego Convention Center* 

### 16. POSTER DISCUSSION SESSION:

Wu TD, Brigham E, Rand CS, **Diette GB**, Peng R, Putcha N, Koehler K, Hansel NN, McCormack MC. Overweight and Obesity Increases Respiratory Symptoms Associated With Secondhand Smoke Exposure Among Us Children. *Poster Discussion Session/Wednesday May 24/Walter E. Washington Convention Center* 

### 17. POSTER DISCUSSION SESSION:

Koch A, Woo H, Brown RH, Brooker A, Paulin LM, Schneider H, Schwartz AR, Diette GB, Wise RA, Hansel NN, Putcha N. Obstructive Sleep Apnea is Associated with Airway Dimensions in COPD. *Poster Discussion Session/Tuesday May 22, 2018/Marriott Marquis San Diego Marina* 

### 18. POSTER DISCUSSION SESSION:

Liesching TN, Huynh T, Cereda M, **Diette GB**. Treatment with the MetaNeb® System in High-Risk Post-Surgical Patients Reduced Hospital and Intensive Care Unit Length of Stay. *Poster Discussion Session/Sunday May 20/San Diego Convention Center* 

### 19. POSTER DISCUSSION SESSION:

Polito C, Eakin M, Woo H, Romero K, McCormack MC, Fawzy A, Paulin LM, **Diette GB**, Koehler K, Hansel NN, Putcha N. Indoor Air Pollution May Be Associated with cognitive Impairment in Chronic Obstructive Pulmonary Disease. *Thematic Discussion Session/Monday May 21/San Diego Convention Center* 

### 20. POSTER DISCUSSION SESSION:

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### Gregory Diette, MD, MHS

Diette publications, continued, after June 2017

Putcha N, Fawzy A, Matsui E, Bowler RP, Woodruff P, O'Neal WK, Comellas AP, Han MK, Dransfield MT, Lugogo N, Hoffman EA, Cooper CB, Hersh CP, Paulin LM, Drummond M, Wise RA, **Diette GB**, Hansel NN. Allergen Sensitization and Exposure Is Associated with Exacerbations in COPD. *Poster Discussion Session/Monday May 21/San Diego Convention Center* 

### 21. POSTER DISCUSSION SESSION

Rice J, Brigham EP, Koehler K, McCormack MC, **Diette GB**, Woo H, Hanson C, Sharma S, Kolahdooz F, Hansel NN. Adherence to a Mediterranean Diet Attenuates the Adverse Effect of Indoor Particulate Matter on Asthma Symptoms in Children. *Poster Discussion Session/Tuesday May 22/San Diego Convention Center* 

### 22. THEMATIC POSTER SESSION:

Wu TD, Rice J, Koehl R, Brigham E, **Diette GB**, Hansel NN, Sterni LM, McCormack MC. Pediatric Sleep Disordered Breathing is Associated with Worse Acute Asthma Control. *Thematic Poster Session/Sunday May 20, 2018/San Diego Convention Center* 

### 23. THEMATIC POSTER SESSION:

Cereda M, Huynh T, Liesching T, **Diette GB**. Identification Of Surgical Population At High Risk Of Postoperative Pulmonary Complications. *Thematic Poster Session/ Sunday May 21, 2017/ Walter E, Washington Convention Center* 

### 24. THEMATIC POSTER SESSION:

Soto, CML, Woo H, Romero K, Brigham E, McCormack MC, **Diette GB**, Hanson C, Fawzy A, Koch A, Putcha N, Hansel NN. Association of Omega-3 and Omega-6 Fatty Acid Intake with Inflammation and Respiratory Outcomes in COPD. *Thematic Poster Session/ Monday May 21, 2018/ San Diego Convention Center* 

### 25. MINI SYMPOSIUM:

Bose S, McCormack MC, Woo HS, Romero K, Brigham E, Koehler K, Detrick B, **Diette GB**, Hansel NN. Vitamin D Status Modifies Response to Indoor Air Pollution in Urban Children with Asthma. *Mini Symposium/ Sunday May 20/ San Diego Convention Center* 

### 26. MINI SYMPOSIUM:

Brigham E, McCormack MC, Woo H, Rice J, Koehler K, Vulcain T, Wu TD, Biswal SS, Sudini K, Koch A, Hanson C, Sangita S, Kolahdooz F, Bose S, Romero K, **Diette GB**, Hansel NN. Omega-3 and Omega-6 Fatty Acid Intake Modifies Response to Indoor Air Pollution in Children with Asthma. *Mini Symposium/ Sunday May 20/ San Diego Convention Center*.

### 27. Listed as a Reviewer and Technical Contributor:

World Health Organization. Air Pollution and Child Health: Prescribing Clean Air Summary. 2018.

# APPENDIX E

		-	
Date	Case Name	Case Number	Deposition or Trial
16-Jan-2014	Ismael Rosas v. Flavorchem Corporation, et al	Superior Court of the State of California Count of Los	Deposition
		Angeles, Central Civil West Case No.: BC400974	(O'Laughlin Industries)
1-Aug-2014	Tanu Vatuvei v. Mission Flavors & Fragrances, Inc., et al.	Superior Court of the State of California for the county of Orange, Central Justice Center	Deposition (O'Laughlin Industries)
		Case No.: 30-2011-00518123	
10-Jun-2014	Harry Goldsmith v. ACandS, Inc., et al.	In the Circuit Court for Baltimore City	Deposition
	(Law Offices of Peter G. Angelos: Mr. William	Case No.: 24x13000097	(Hampshire Industries)
	Minkin, Esq.)		
3-Oct-2014	Charles Waters v. ACandS, Inc., et al.	In the Circuit Court for Baltimore City	Deposition
	(Law Offices of Peter G. Angelos: Mr. Gary	Case No.: 24x13000461	(Hampshire Industries)
	Ignatowsi, Esq.)		
31-Oct-2014	Francis Murphy v. ACandS, Inc., et al.	In the Circuit Court for Baltimore City	Deposition
	(Law Offices of Peter G. Angelos: Mr. William	Case No.: 24x13000371	(Hampshire Industries)
	Minkin, Esq.)		
19-Feb-2015	Rachele and David Ventres v. 002 Auto Parts	Superior Court of New Jersey	Deposition
	Inc., et al.	Case No.: MID-L-1933-12AS	(BASF)
	(Levy Konigsberg: Joseph Mandia, Esq.)		
19-Feb-2015	Thomas and Donna Gioglio v. 3M Company, et Superior Court of New Jersey	Superior Court of New Jersey	Deposition
	al.	Case No.: MID-L-4593-12AS	(BASF)
	(Levy Konigsberg: Joseph Mandia, Esq.)		
25-Feb-2015	Lorene McKenzie, deceased v. Palestine	District Court of Anderson County Texas, 369th Judicial  Trial	Trial
	Principal Healthcare Limited Partnership, et al. District.	District.	(Plaintiff)
		Case No.: 369-12-4684	
13-Mar-2015	Walter Henry Hakenjos v. AT&T Corporation,	Civil District Court for the Parish of Orleans State of	Deposition
	et al.	Louisiana	(AT&T)
	(Cannella Law Firm: David Cannella, Esq.)	Case No.: 14-3828	
10-Apr-2015	Robert Menoche (as part of Raymond	In the Circuit Court for Baltimore City	Deposition
	Michaels, et al.,) v. ACandS, Inc., et al.	Case No.: 24x14000259	(Hampshire Industries)
	(Law Offices of Peter G. Angelos: Mr.		
	Theodore Fierlage, Jr., Esq.)		

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lay-2015	Kathy Mason v. Vistas at Lake Largo, LLC (Eccleston and Wolf: Mark Johnson, Esq.)		Deposition (de bene esse) (Vistas at Lake Largo)
3-Jun-2015	Senate Committee on Environment & Public Works	Challenges and Implications of EPA's Proposed National Ambient Air Quality Standard for Ground- Level Ozone and Legislative Hearing on S. 638, S. 751, and S. 640.	(Minority)
12-Jun-2015	Donald Russ and Ann Russ v. Alcatel-Lucent USA Inc, et al. (Simmons Hanley Conroy: Daniel Blouin, Esq.)	In the Superior Court of New Jersey Case No.: MID-L-1249-14-AS	Deposition (AT&T)
16-Jun-2015	House Committee on Energy & Commerce	EPA's Proposed Ozone Rule: Potential Impacts on Manufacturing.	(Minority)
31-Jul-2015	Eric Heggie, as Special Administrator of the Estate of Karry Heggie, Deceased v. Honeywell International, Inc., Et al. (Wylder Corwin Kelly LLP)	tor of the In the Circuit Court of the Eleventh Judicial Circuit v. Honeywell County of McLean Case No.: 12 L 87	Deposition (Lincoln Electric Company; Hobart Brothers Company)
23-Oct-2015	Kris Penny v. AT&T Corporation, et al. (The Ruckdeschel Law Firm, LLC)	In the United States District Court Middle District of Florida Orlando Division Case No.: 6:15-cv-557-ORL-31KRS	Deposition (AT&T)
25-Aug-2016	Wanda Allen, Individually and as Personal In the Circuit Court for Baltim Representative of the Estate of Byron K. Allen, Case No.: 24-C-15-003256 OT et al. (Dumer & Barnes, P.A.)	ore City	Deposition (Clinical Associates, PA: Sinai Hospital of Baltimore, Inc.)
28-Sep-2016	Rudiger & Joan Herion v. Donley's Inc., et al. (Bevan & Associates LPA, Inc.)	In the Court of Common Pleas, Cuyahoga County, Ohio Case No.: 15 CV 848879	Deposition (Donley's Inc.)
11-Jan-2017	Anita M. Albright v. Kevin Anthony Seymour (Law Office of Neil J. Bixler, P.A.: Neil Bixler, Esq.)	Carroll County Circuit Court in Maryland	Trial (Kevin Anthony Seymour)

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Date	Case Name	Case Number	Deposition or Irial
3-Feb-2017	Brian Tucker and Sherri Tucker, his wife v.	In the United States District Court for the Southern	Deposition
	Momentive Performance Materials USA, Inc.,	District of West Virginia at Charleston	(Joint Defense)
	et al.	Civil Action No. 2:13-cv-04480	
	(Motley Rice, LLC: Scott B. Hall, Esq.)		
3-Mar-2017	Dennis John Zampa and Pamela S. Zampa v.	In the Alameda County Superior Court of California	Deposition
	Georgia-Pacific LLC, et al.	Case No.: RG16836998	(E.I. Du Pont de Nemours
	(Kazan, McClain, Satterley & Greenwood: Trey		and Company)
	Jones, Esq.)		
8-Mar-2017	Gregory Aregood, Jr., et al. v. International	United States District Court for the Southern District of Deposition	Deposition
	Flavors & Fragrances, Inc., et al.	Indiana Civil	(Givaudan Flavors
	(Humphrey, Farrington & McClain, P.C.:	Action No.: 1:14-CV-00274-LRM-TAB	Corporation)
	Steven E. Crick, Esq.)		
24-Mar-2017	Gregory Aregood, Jr., et al. v. International	United States District Court for the Southern District of Continued Deposition	Continued Deposition
	Flavors & Fragrances, Inc., et al.	Indiana Civil	(Givaudan Flavors
	(Humphrey, Farrington & McClain, P.C.:	Action No.: 1:14-CV-00274-LRM-TAB	Corporation)
	Steven E. Crick, Esq.)		
29-Mar-2017	Dennis John Zampa and Pamela S. Zampa v.	In the Alameda County Superior Court of California	Deposition
	Georgia-Pacific LLC, et al.	Case No.: RG16836998	(E.I. Du Pont de Nemours
	(Kazan, McClain, Satterley & Greenwood: Trey Jones, Esq.)		and Company)
6-Sep-2017	Aaron Ruby, et al., v. International Flavor &	Court of Common Pleas Marion County, Ohio Case	Deposition (Givaudan
	Fragrances, INC., et al. (Stephen J. Butler, Esq.)	J. Butler, Esq.) No.: 2014 CV 0509	Flavors Corporation)
14-Dec-2017	Terry Darpel, et al. v. Cargill Flavor Systems	Commonwealth of Kentucky Kenton Circuit Court,	
	US, LLC, et al.	Division III.	Deposition (Emoral; Berje
	(Motley Rice, LLC: Scott B. Hall, Esq.)	Case No.: 12-CI-446	Incorporated)
17-Jan-2018	Delbert Cohen, Individually, and as Personal		
	Representative of the Estate of Muriel Cohen,		
	et al., v. 84 Lumber Company, et al. (The		
	Ruckdeschel Law Firm, LLC; Z. Stephen Horvat,	Ruckdeschel Law Firm, LLC; Z. Stephen Horvat, In the Circuit Court for Prince George's County Case	Deposition (Hampshire
	Esq.)	No.: CAL16-37427	Industries)

Date	Case Name	Case Number	Deposition or Trial
4-Apr-2018			
	Darrell Palmer and Norma Palmer v. Appleton In the Marion Superior Court	n the Marion Superior Court	Deposition (Rockwell
	GRP, LLC d/b/a Appleton Group and Emerson SS: Civil Division Room 2	SS: Civil Division Room 2	Automation; Reliance
	Electric Co., et al. (Geoge & Farinas, LLP)	Cause No. 49D02-1704-MI-016728	Electric)
22-Apr-2018			
	Gail Lucille Ingham and Robert Ingham, et al.		
	v. Johnson & Johnson; Johnson & Johnson		
	Consumer Companies, Inc.; and Imerys Talc	In the Circuit Court of the City of St. Louis	
	America, Inc., f/k/a Luzenac America, Inc. (The State of Missouri	State of Missouri	Deposition (Johnson &
	Lanier Law Firm; Sam E. Taylor, Esq.)	Cause No. 1522-CC10417-01	Johnson)
10-Jul-2018	Blades, Kevin, et al. v. Emoral, Inc., f/k/a		
	Polarome International, Inc., et al.		
	(Humphrey, Farrington & McClain; Scott A.	In the Circuit Court of Jasper County, Missouri Case No.	
	Britton-Mehlisch)	17AO-CC00025	Deposition (Emoral)
27-Jul-2018			
	Herman Leischner and Bonnie Leischner v.	In the Circuit Court of the Eleventh Judicial Circuit	Deposition (Hobart
	Aerco International, Inc., et al. (Wylder Corwin County of McLean	County of McLean	<b>Brothers and Lincoln</b>
	Kelly LLP; Stephen Wood, Esq.)	No. 15 L 53	Electric)
3-Aug-2018	Marlin Herbst v. Bush Boake Allen, Inc., et al.		Deposition (Givaudan
	(Humphrey, Farrington & McClain; Michael S.	In the United States District Court Northern District of	Flavors Corporation &
	Kilgore, Esq.)	owa Western Division No. C17-4008-MWB	Emoral, Inc.)
30-Aug-2018			Deposition (Johnson &
			Johnson, Johnson &
	Rosalind Henry and Frederick C. Henry v.		Johnson Consumer Inc.,
	Brenntag North America, et al. (Motley Rice	Superior Court of New Jersey, Middlesex County	and Imerys Talc America,
	LLC; W. Christopher Swett, Esq.)	No. MID-L-1748-17AS	Inc.)
28-Sep-2018	Nelcome Courville, Jr. v. Lamorak Insurance		
	Company, et al. (Roussel & Clement; Gerolyn	Civil Dirstric Court for the Parish of New Orleans,	Deposition (Chemours
	P. Roussel, Esq.)	Louisiana No. 2017-1117	Company)

Date	Case Name	Case Number	Deposition or Trial
3-Oct-2018	Rosalind Henry and Frederick C. Henry v. Brenntag North America, et al. (Motley Rice LLC; W. Christopher Swett, Esq.)	Superior Court of New Jersey, Middlesex County No. MID-L-1748-17AS	Trial (Johnson & Johnson, Johnson & Johnson Consumer Inc., and Imerys Talc America, Inc.)
17-Oct-2018	Carol Kerkhof, et al. v. Brenntag North American, INC, et al. (Simon Greenstone Panatier Bartlett, PC)	Circuit Court for Montgomery County No. 439392-V	Depositon (Johnson & Johnson, Johnson, Johnson & Johnson Consumer Inc., and Imerys Talc America, Inc.)
26-Oct-2018	Anastasia Brower, a minor, through her legal guardian Pamela Russell, and Pamela Russell, as the executrix of the Estate of Diane Brower, deceased v. Johnson & Johnson, et al.	ugh her legal mela Russell, Diane Brower, In the State Court of Fulton County Fulton State of et al. Georgia No. 16-EV-005534-E	Deposition (Johnson & Johnson, Johnson & Johnson Consumer Inc.)
9-Nov-2018	Superior Court of the State of California, C Paul E. Beach and Rheta E. Beach, Pltfs. vs. 3M Alameda - Court of Unlimited Jurisdiction. Company, etc., et al.	Superior Court of the State of California, County of Alameda - Court of Unlimited Jurisdiction. Case No. RG18893273	Deposition (Rockwell Automation)
13-Dec-2018	Terry Lee Siegfried v. 3M Company, etc., et al. Los Angeles County- Superior Court- Case No. (The Lanier Law Firm; Mark A. Linder, Esq.)	Los Angeles County- Superior Court- Case No. BC691900	Deposition (Rockwell Automation)
9-Jan-2019	Joseph Woon-Shing Lee and Marina Lai-Kuen Lee vs. A. W. Chesterton Company, et al. (Shingler Law; Ronald J. Shingler)	Solano County - Superior Court - Fairfield, CA Case # FCS050176	Deposition (Johnson & Johnson, Johnson & Johnson Consumer Inc.)
25-Jan-2019	Phillip Luna v. The Kerry Group, Inc. et al. (TORHOERMAN LAW, LLC)	Los Angeles County- Superior Court- Case No. BC544985	Deposition (PENTA, et al.)
22-Feb-2019	Lester D. Gardner and Marilyn A. Gardner, etc. vs. ABB INC., etc., et al. (Weinstein Couture, PLLC; Brian D. Weinstein)	Pierce County - Superior Court - Olympia, WA Case No. 172112033	Deposition (Rockwell Automation)

# Exhibit 9

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UNITED STATES DISTRICT COURT  DISTRICT OF NEW JERSEY	DISTRICT OF NEW JERSEY	DISTRICT OF NEW JERSEY  TO SET		
IN RE JOHNSON & JOHNSON ) MDL No.  TALCUM POWDER PRODUCTS ) 16-2738 (FLW)(IMARKETING SALES PRACTICES, )  AND PRODUCTS LIABILITY )  LITIGATION )  THIS DOCUMENT RELATES TO )  ALL CASES )  VIDEOTAPED DEPOSITION OF GREGORY B. DIETTE, M.D.  TOWSON, MARYLAND  TUESDAY, APRIL 9, 2019	IN RE JOHNSON & JOHNSON ) MDL No.  TALCUM POWDER PRODUCTS ) 16-2738 (FLW)(IMARKETING SALES PRACTICES, )  AND PRODUCTS LIABILITY )  LITIGATION )  THIS DOCUMENT RELATES TO )  ALL CASES )	IN RE JOHNSON & JOHNSON ) MDL No.  TALCUM POWDER PRODUCTS ) 16-2738 (FLW)(IMARKETING SALES PRACTICES, )  AND PRODUCTS LIABILITY )  LITIGATION )  THIS DOCUMENT RELATES TO )  ALL CASES )	UNITED STATES DI	STRICT COURT
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2	the:	2	
3		3	CYNTHIA L. GARBER, ESQUIRE
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13		13	Washington, D.C. 20004
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15		15	
16	Pursuant to notice, before Leslie Anne Todd,	16	ON BEHALF OF THE JOHNSON & JOHNSON DEFENDANTS:
17	Court Reporter and Notary Public of the State of	17	ALLISON M. BROWN, ESQUIRE
18	Maryland, who officiated in administering the oath	18	RICHARD M. HEASLIP, ESQUIRE
19	to the witness.	19	WEIL, GOTSHAL & MANGES LLP
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24		24	
25		25	
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2		2	
3	ON BEHALF OF THE PLAINTIFFS:	3	KATHERINE MCBETH, ESQUIRE
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17 18 19 20 21	COHEN PLACITELLA ROTH, PC 127 Maple Avenue	21	
17 18 19 20 21 22	COHEN PLACITELLA ROTH, PC 127 Maple Avenue Red Bank, New Jersey 07701	21 22	ALSO PRESENT:
17 18 19 20 21 22 23	COHEN PLACITELLA ROTH, PC 127 Maple Avenue	21 22 23	
17 18 19 20 21 22	COHEN PLACITELLA ROTH, PC 127 Maple Avenue Red Bank, New Jersey 07701	21 22	ALSO PRESENT:

2 (Pages 2 to 5)

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1	EXHIBITS (Continued)	1	EXHIBITS (Continued)
2	(Attached to transcript)	2	(Attached to transcript)
3	DIETTE DEPOSITION EXHIBITS PAGE	3	DIETTE DEPOSITION EXHIBITS PAGE
4	No. 23 Article entitled "Exposure to	4	No. 34 Article entitled "Possible Role of
5	Secondhand Smoke and Risk of Cancer	5	Epithelial Inflammation in Ovarian
6	in Never Smokers: A Meta-Analysis of	6	Cancer" 442
7	Epidemiologic Studies" 366	7	
8	No. 24 International Journal of Cardiology	8	
9	article, "Risk of all-cause mortality	9	
10	and cardiovascular disease associated	10	
11	with secondhand smoke exposure: A	11	
12	systematic review and meta-analysis" 369	12	
13	No. 25 NIH Public Access Author Manuscript,	13	
14	"Common Household Activities are	14	
15	Associated with Elevated Particulate	15	
16	Matter Concentrations in Bedrooms of	16	
17	Inner-City Baltimore Pre-School	17	
18	Children" 377	18	
19	No. 26 "The Health Consequences of	19	
20	Involuntary Exposure to Tobacco	20	
21	Smoke," A Report of the Surgeon	21	
22	General 377	22	
23	No. 27 IARC Monograph entitled "Arsenic,	23	
24	Metals, Fibres and Dusts," Volume	24	
25	100 C, A review of Human Carcinogens 392	25	
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1	Page 11 EXHIBITS (Continued)	1	Page 13
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2	E X H I B I T S (Continued) (Attached to transcript) DIETTE DEPOSITION EXHIBITS PAGE No. 28 Table 2.8 Epidemiologic studies of	2	PROCEEDINGS
2	E X H I B I T S (Continued) (Attached to transcript) DIETTE DEPOSITION EXHIBITS PAGE	2	PROCEEDINGS THE VIDEOGRAPHER: We are now on the
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1	BY MS. PARFITT:	1	jury.
2	Q Good morning, Dr. Diette. How are you?	2	A Sure. It's Gregory
3	A Good morning. Fine, thanks.	3	MS. BROWN: Objection. There's no jury
4	Q Good. We will dispense with the usual	4	here.
5	comments with regard to a deposition. I	5	MS. PARFITT: There may be.
6	understand you've had	6	MS. BROWN: Go ahead, Dr. Diette.
7	THE VIDEOGRAPHER: Microphone.	7	THE WITNESS: My parents gave it to me,
8	BY MS. PARFITT:	8	for what it's worth, but it's Gregory Bruce
9	Q All right. Now we're back on the mic.	9	Diette.
10	Dr. Diette, we'll dispense with the	10	BY MS. PARFITT:
11	usual comments with regard to what a deposition is	11	Q Okay. Very good.
12	about. I understand you've probably had your	12	Dr. Diette, what I'd like to do is mark
13	deposition taken more than a hundred times. Is	13	as Exhibit 1 a notice of the deposition.
14	that fair?	14	(Diette Exhibit No. 1 was marked
15	A I don't know if it's a hundred, but	15	for identification.)
16	but plenty enough that I think that I I	16	BY MS. PARFITT:
17	understand the process.	17	Q Dr. Diette, if I may, Exhibit 1 is the
18	Q All right. The only one that I will ask	18	notice of deposition. Have you seen that document
19	you to pay some attention to is the fact that if	19	before?
20	you don't understand my question, please let me	20	A Yeah, I've certainly seen seen
21	know. Otherwise, I'm going to assume you	21	something just like this.
22	understand every question that I ask, and the	22	Q All right. Do you see at the back of
23	answers that you're giving are truthful and	23	the deposition, there is a notice that there is
24	accurate. Fair enough?	24	a request for you to bring certain information to
25	A It is.	25	your deposition? Do you see that?
1 2	Q All right. Now, you're sitting here today in Towson, Maryland, in a Sheraton Hotel; is	1 2	A Yes. Q All right. Have you had a chance to
3	that correct?	3	Q All right. Have you had a chance to review that?
4	A That is.	4	A I have.
5	Q All right. You are normally, I believe,	5	Q All right. How recently?
6	over at Johns Hopkins University Medical Center,	6	A Last week sometime.
7	correct?	7	Q All right. Was it provided to you by
8	A That's right.	8	counsel?
9	Q All right. Is your department aware of	9	A I think that's the only way I could get
10	the fact that you're sitting over here having a	10	it.
11	deposition taken?	11	Q Okay. Very good.
12	A I don't know if anybody knows about this	12	Now, yesterday, perhaps early in the
13	today, but they wouldn't be surprised, I mean, to	13	morning, I was also provided a copy of the
14	hear it if I told them.	14	Defendants' Response to the Plaintiffs' Document
15	Q All right. They know that you	15	Requests Contained in the Notice of Oral and
16	frequently give depositions so they would not be	16	Videotaped Deposition.
17	surprised; is that correct?	17	Let me show you what we will have marked
18	MS. BROWN: Objection to form.	18	as Exhibit No. 2.
19	THE WITNESS: They I don't know about	19	(Diette Exhibit No. 2 was marked
20	frequently, but they know that that I do give	20	for identification.)
21	depositions.	21	BY MS. PARFITT:
22	BY MS. PARFITT:	22	Q Dr. Diette, let me present you with a
0.0	Q All right. Very good.	23	copy of Exhibit No. 2.
23		1	
24	Would you please introduce your formal	24	All right. Dr. Diette, my understanding
		24 25	All right. Dr. Diette, my understanding is that this document, Exhibit No. 2, represents

	Page 18		Page 20
1	your responses to the requests that were	1	much.
2	propounded upon you to for documents and other	2	BY MS. PARFITT:
3	materials prior to your deposition, correct?	3	Q All right. Dr. Diette, number or
4	MS. BROWN: Objection to the form. It	4	Exhibit No. 3, the first document, Supplemental
5	represents the lawyer's objections to the document	5	Materials Reviewed and Considered, did you prepare
6	requests you served.	6	this Supplemental Materials Reviewed and
7	MS. PARFITT: Fair.	7	Considered?
8	THE WITNESS: I I think Ms. Brown's	8	A I contributed to it, but I didn't do the
9	got it right.	9	typing.
10	BY MS. PARFITT:	10	Q Okay. What does that mean when you say
11	Q All right. Did you well, let's have	11	you contributed to it?
12	marked the attachment to the response to	12	A I helped to clarify what other
13	plaintiffs' document, which was prepared by your	13	because this this looks like it's all
14	lawyers. And let's separately mark as Exhibit	14	reports I just want to make sure what's here
15	No. 3 the attachments, if you will.	15	reports, a couple of papers probably, and I I
16	A Should I pull this apart or or you	16	helped to verify that these were also things that
17	want to do that?	17	I had had received and had a chance to look at.
18	Q And for purposes of the record,	18	Q All right. So would it be fair to say
19	Exhibit 2 will represent the entire document, the	19	that the 23 items listed on this were materials
20	response to plaintiffs' request, and No. 3 will	20	that somebody typed on a list and asked that you
21	represent just the attachments to the request,	21	review it; is that correct?
22	which would be material that you, Dr. Diette, were	22	MS. BROWN: Objection to the form.
23	to provide.	23	Misstates his testimony.
24	(Diette Exhibit No. 3 was marked	24	THE WITNESS: So I think, just in terms
25	for identification.)	25	of the sequence, I mean I've gotten materials in
23	To recitification.)		of the sequence, I mean I ve gotten materials in
	Page 19		Page 21
1	BY MS. PARFITT:	1	this matter over a period of time, right. So they
2	Q And we'll briefly just review what's	2	come in dribs and drabs. And a lot of this looks
3	here, so we can move on to other areas.	3	like some of the more recent things that came, you
4	The first page of that document	4	know, because you guys have been doing
5	indicates supplemental materials reviewed and	5	depositions, and some of the reports came in later
6	considered.	1	
O		6	•
7	MS. BROWN: Counsel, can we go off the	6 7	and so forth. So it's really that's how I got
	MS. BROWN: Counsel, can we go off the record for a second?		and so forth. So it's really that's how I got the materials, and then this is just to make sure
7		7	and so forth. So it's really that's how I got
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1	BY MS. PARFITT:	1	Q All right. Let me get this straight.
2	Q All right. Is it fair to say that the	2	Your hourly rate is 485.
3	items that are listed on Exhibit No. 2 3 were	3	A Well, sort of. I'll describe it if
4	not items that you considered for purposes of the	4	you'd like here.
5	opinions you've expressed in your report of	5	Q Well, I you can understand my
6	February 25th, 2019?	6	confusion. If your hourly rate is 485, I want to
7	MS. BROWN: Objection to the form.	7	know you're why I'm getting
8	THE WITNESS: So I it's very possible	8	A You don't need to be confused for very
9	that the Barnard study I did consider. Trabert, I	9	long, though.
10	can't remember. But definitely, right, the expert	10	MS. BROWN: Hold on. Hold on.
11	reports that are dated on 2/25, I couldn't have	11	Counsel, you've got to let him answer
12	considered. And anything that's a deposition	12	the question.
13	transcript that happened after 2/25, obviously I	13	MS. PARFITT: Sure.
14	couldn't have considered that either.	14	MS. BROWN: He is endeavoring to set
15	BY MS. PARFITT:	15	that straight.
16	Q All right. Very good.	16	MS. PARFITT: Please.
17	The information thereafter, I believe we	17	MS. BROWN: So go ahead.
18	have one, two, three four invoices. They	18	THE WITNESS: I think it's pretty easy.
19	begin with the date of 12/14/2018, and end with a	19	I charge \$400 an hour, and Medical Science
20	date of 3/15/19.	20	Affiliates prepares this invoice, and part of
21	Are there any other invoices that you	21	their business model is to add an hourly rate
22	would like to share with me today?	22	to to my rate.
23	A I don't have any others that I'm aware	23	BY MS. PARFITT:
24	of.	24	Q Okay. And I want to talk a little bit
25	Q Are you preparing any invoices for your	25	about that in a moment, but that's exactly one of
	Page 23		Page 25
1	time post the very last invoice which is dated	1	the issues I need some clarification on. But
2	3/15/2019?	2	let's finish up the bills.
3	A I will be.	3	A Mm-hmm.
4	O A11 1 1 1 1		
-	Q All right. How many hours have you	4	Q We have a bill for 12/14/2018 for
5	spent since your submitting the invoice of	4 5	Q We have a bill for 12/14/2018 for \$17,103.75. Correct?
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Gregory B. Diette, M.D.

Page 26 Page 28 1 O Now, attached to that is -- it has an 1 that I just made as I was reading through 2 exhibit on it, Plaintiffs' Exhibit No. 7, and it 2 different articles. 3 appears to be several pages of notes. 3 Q Okay. Would --4 4 Do you see that? A No, I'm sorry. 5 A I do. 5 Q Are you finished? 6 6 Q All right. What are these notes? A No, that's just what I was going to say, 7 7 A Well, these -- I haven't looked to see so these are -- it just represents just notes that 8 8 for sure what's --I was making at certain times when I was looking 9 MS. BROWN: And, Counsel, just to make 9 at some of the articles. 10 10 sure the record is clear, this was produced in Q Okay. When did you first start looking 11 response per your request for his notes that were 11 at any of the articles? 12 12 A Sometime in -- by -- if we're talking marked at the Ingham deposition. So this exhibit 13 number is the marking from the Ingham deposition, 13 about the articles, meaning articles pertaining to 14 14 and these were the notes that he produced there ovarian cancer and talcum powder, is it? Q Well, it's a good question, because you 15 that I'm frankly sure you have access to, but in 15 16 16 the effort of cooperation, we reproduced them here just said when you started looking at any of the 17 17 per your request. articles, are you talk- -- do these represent any BY MS. PARFITT: 18 18 articles or do these represent articles of ovarian Q So, Doctor --19 19 cancer and talcum powder? 20 20 A It's -- oh, go ahead. I'm sorry. A Yeah, yeah. 21 Q Go ahead. You were going to tell me 21 MS. BROWN: And hold on, I think the 22 22 what they are. record is going to be unclear. When you say 23 A Yeah, and I didn't know if that was 23 "these," are you referring to what has been marked 24 24 as Plaintiffs' Exhibit 7 in response to your -the -- the sufficient answer, because that's 25 literally, I guess, what they are right there. 25 MS. PARFITT: Correct. Page 27 Page 29 These are -- they're an exhibit. But did you mean 1 1 MS. BROWN: -- notice of deposition? 2 something else, like --2 Okay. 3 Q Well, now that I've had clarification by 3 THE WITNESS: So this would have been 4 4 sometime in 2017 that -- that I started. I don't your attorney, that does help a bit, but I do have 5 5 know if these notes were made in 2017, but I a couple of questions. 6 6 MS. MILLER: For the record, she's not just mean that that's the answer to when I started 7 7 his attorney. She's J&J's attorney. to look at those article -- articles. 8 8 BY MS. PARFITT: MS. PARFITT: We're going to have one 9 examiner today. So you and Ali decide who that's 9 Q And we'll get to that timeline in a 10 going to be. 10 moment. 11 MS. BROWN: Okay. Counsel, let's keep 11 Are there any additional notes that you 12 going with the questions for Dr. Diette so we 12 have prepared post Plaintiffs' Exhibit No. 7, 13 13 don't waste the doctor's time. which I understand you presented at the Ingham 14 MS. PARFITT: Believe me, I don't want 14 deposition? 15 15 to waste my time. So let's -- okay. I realize A I don't think so. I'll give you an 16 every now and again it happens. 16 example of something that I don't know whether you BY MS. PARFITT: 17 consider it a note or not. 17 18 Q So, Dr. Diette, these are notes that you 18 O Okay. 19 19 prepared back at the time of the Ingham A Like as I was preparing my report, I 20 20 deposition, correct? would put like a -- like a little sticker on a 21 21 A So not literally. Right, there are -- I paper where I wanted to pull a quote into the --22 was asked, and I don't remember exactly what --22 into the paper, and then I would tear that off and 23 what was on the notice, but I was asked to bring 23 throw it away because it wasn't, you know, useful 24 24 anymore. But nothing else that kind of -- that any notes that I had made. So they're not 25 25 looks like this. necessarily for the Ingham matter. They're notes

and then I tore it off.  Are these medical records that or excuse me, medical articles that you were reviewing?  A These are scientific articles, yeah, the ones that informed my report.  Q All right. So do you have a stack of stem or any stickies?  A I don't think there's any stickies amount that have yellow highlights or them or any stickies?  A But I don't think any that have like writing on them per se.  Q O kay. Do any of them, but could be on some.  Page 31  Q All right.  MS. PARFITT: I will, yeah.  MS. PARFITT: I wail, yeah.  MS. PARFITT: I wail, yeah.  MS. PARFITT: I wail there is such a thing. I understand you to be getting into questions regarding Medical Sciences.  MS. PARFITT: I wail, yeah.  MS. PARFITT: I wail there is such a thing. I understand you to be getting into questions regarding Medical Sciences.  MS. PARFITT: I wail, yeah.  MS. PARFITT: I wail, yeah.  MS. PARFITT: I wail there is such a thing. I understand you to be getting into questions regarding Medical Sciences.  MS. PARFITT: I wail, yeah.  MS. PARFITT: I wail, yeah.  MS. PARFITT: I wail, yeah.  MS. PARFITT: I wail to questions regarding Medical Science.  MS. PARFITT: I wail, yeah.  MS. PARFITT: I wail to questions regarding Medical Sciences.  MS. PARFITT: I wail to questions regarding Medical Science.  MS. PARFITT: I wail to questions regarding Medical Science.  Page 31  A Correct.  MS. PARFITT: Okay. And we're get try and reduce the number of narrative objectif we can so we can get through this - THE WITNESS: I remember your of if you want me to answer it.  BY MS. PARFITT:  Q I do.  I wanted to know in response to required was a page of the page of th		Page 30		Page 32
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21 agreement with Medical Science Affiliates? 21 that is objecting and refusing to have you an	20	Q All right. Do you have a retainer	20	Science Affiliates under the guidance of counsel
			21	that is objecting and refusing to have you answer
	22	_	22	that question. Is that correct record correct?
	23		23	MS. BROWN: That's correct, Counsel.
24 made a request for any documentation regarding 24 MS. PARFITT: Okay.			24	
25 Medical Science Affiliates, you have our 25 BY MS. PARFITT:			1	

	Page 34		Page 36
1	Q And we're going to talk about Medical	1	THE WITNESS: I've seen I've seen it
2	Science in just just a moment.	2	ranked highly. I don't remember if it was fifth,
3	Anything else other than the documents	3	but I've seen it ranked highly.
4	that I have in front of you, Exhibit 7, the	4	BY MS. PARFITT:
5	invoice and your supplemental reliance, that you	5	Q All right. Are you aware of the fact
6	have brought to your deposition today?	6	that ovarian cancer accounts for more deaths than
7	A So I didn't bring this today.	7	any other cancer in the female reproductive
8	Q Okay. Fair enough.	8	system?
9	A I mean I I didn't bring anything I	9	A Ovarian cancer. Is that is that a
10	mean I didn't bring any materials to the	10	statement from a like a document or something?
11	deposition.	11	Q It's a question.
12	Q Okay.	12	A It's a question that
13	All right. Dr. Diette, what is your	13	Q Do you know whether or not ovarian
14	profession?	14	cancer accounts for more deaths than any other
15	A Well, I'm a physician, epidemiologist,	15	cancer of the female reproductive system?
16	researcher.	16	A I know it's a highly ranked one. I
17	Q Okay. You're actually a professor of	17	wouldn't be able to say whether it's more than all
18	medicine at the Department of Pulmonary and	18	others.
19	Critical Care, is that correct, at Johns Hopkins?	19	Q All right. Do you know whether
20	A Literally it's the Department of	20	approximately 22,000 new cases of ovarian cancer
21	Internal Medicine, and it's the Division of	21	identified each year and 14,000 women
22	Pulmonary, Critical Care, and Sleep Medicine.	22	approximately will die in the United States alone
23	Q Okay. Dr. Diette, do you agree that	23	from ovarian cancer?
24	ovarian cancer ranks as the fifth cause of	24	MS. BROWN: Objection to the form.
25	neoplastic death among women?	25	THE WITNESS: I haven't memorized
	Page 35		Page 37
1	A I've seen I've seen it listed on	1	anything with exact numbers like that. I mean I'm
1 2	A I've seen I've seen it listed on you know, on lists of causes of death. I don't	1 2	
	A I've seen I've seen it listed on you know, on lists of causes of death. I don't know what you mean by "agree with," but I mean		anything with exact numbers like that. I mean I'm not saying it's far off from the truth, and if you have, you know, some document that supports that,
2	A I've seen I've seen it listed on you know, on lists of causes of death. I don't know what you mean by "agree with," but I mean Q Do you have a difference of opinion as	2	anything with exact numbers like that. I mean I'm not saying it's far off from the truth, and if you have, you know, some document that supports that, I'd be glad to look at it and see if it looks
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	Page 38		Page 40
1	MS. PARFITT: Ms. Brown, your objection,	1	thinking about your question before, I just wanted
2	according to the CMO in the MDL case, perhaps	2	to clarify that I because when you said that I
3	you're doing other state depositions, is that you	3	billed \$100,000, I think what you might be doing
4	say, "Objection. Form."	4	is adding up all of those MSA invoices, which that
5	And I'll try and do my best, if you'd do	5	doesn't all go to me. I mean there's a way to
6	the same. And I'm not admonishing you, and I hope	6	figure out how much that I've billed, but but
7	you're not admonishing me. That's not how I roll.	7	you wouldn't be correct if you're saying that
8	MS. BROWN: Well, the record is going to	8	those four invoices represent the amount that I've
9	be very clear	9	charged.
10	MS. PARFITT: It will be.	10	Q Okay. And we'll talk about that, but I
11	MS. BROWN: about the statement that	11	appreciate the clarification.
12	you just made about the other work that I'm doing.	12	So, the other question is, do you have
13	MS. PARFITT: I said	13	an understanding that most ovarian cancer cases
14	MS. BROWN: I am well aware of the	14	are detected and diagnosed at a late stage and
15	CMO	15	there are limited prospects for cure?
16	MS. PARFITT: Perfect. Okay.	16	MS. BROWN: Same objection.
17	Counsel	17	THE WITNESS: I have that general
18	MS. BROWN: and the deposition	18	understanding.
19	protocol in this case.	19	BY MS. PARFITT:
20	MS. PARFITT: that's fine.	20	Q Okay. Do you have any knowledge as to
21	MS. BROWN: And I	21	what the mortality and morbidity of ovarian cancer
22	MS. PARFITT: Counsel	22	is?
23	MS. BROWN: expect that you will	23	A Well, the morbidity is not a number,
24	abide by it	24	right. I mean you're talking about what are the
25	MS. PARFITT: let me ask questions.	25	consequences?
_	Page 39		Page 41
1	MS. BROWN: and not interrupt me.	1	Q You're right.
2	Thank you.	2	A And then the mortality would be
3	MS. PARFITT: I am not going to, but I	3	something that's an objective fact that there's a
4	would ask the same courtesy. And, listen, we have	4	percentage of people with the disease that die.
5	a long day to go, and it will be longer	5	Q Right.
6	MS. BROWN: Just ask the doctor a	6	A I don't know the number. I didn't
7	question and move on.	7	memorize that. If it's important, we can look it
8	MS. PARFITT: if we go back and	8	up, but it's a high it's a high proportion that
9	forth. "Objection, form" is the appropriate way,	9	die from it.
10	or we will have to call the judge.	10	Q Fair. Do you know what the latency is
11	MS. BROWN: Happy to do it.	11	for ovarian cancer?
12	MS. PARFITT: Very good. So will I.	12	A Between what and what?
13	BY MS. PARFITT:	13	Q The latency period between let's take
14	Q All right. Dr. Diette, do you have an	14	some examples asbestos and ovarian cancer.
15	understanding from your review of the scientific	15	MS. BROWN: Objection to the form of the
16	and medical literature that ovarian cancer cases	16	question.
17	are detected and diagnosed at a late stage and	17	You can answer if you understand.
18	there are limited prospects for cure?	18	THE WITNESS: So the that's a tricky
19	MS. BROWN: Objection to the form of the	19	issue, I think in a way, because I'm not sure that
20	question.	20	it's been fully established that asbestos causes
	THE WITNESS: I didn't listen to what	21	ovarian cancer. I mean I'm aware of what the IARC
21			has not out on it but I'm not sure that that's a
22	you said because	22	has put out on it, but I'm not sure that that's a
22 23	BY MS. PARFITT:	23	fact. But I don't recall seeing in there where
22	•		-

	Page 42		Page 44
1	BY MS. PARFITT:	1	Q Okay. All right. And we're going to
2	Q All right. Have you in the course of	2	talk about that in conjunction with just hold
3	strike that.	3	tight. I'm going to set that aside, and let me
4	All right. From a review of the	4	ask you this
5	materials you reviewed attached to your expert	5	A Can I ask just real quick?
6	report, Doctor, I see that you reviewed the Purdie	6	Q Sure.
7	case	7	A There's like a cold breeze blowing down
8	MS. BROWN: Counsel Counsel, is there	8	here, and I know we will regret making it warmer
9	a page you want to point him to so we can follow	9	in here at some point.
10	along?	10	Q Sure.
11	MS. PARFITT: I'm still asking the	11	MS. PARFITT: Well, let's take a moment
12	question, Counsel.	12	and let's see if we can
13	BY MS. PARFITT:	13	MS. BROWN: Why don't we go off the
14	Q Dr. Diette, attached to your report is a	14	record for one second.
15	materials reviewed. And on page 7, it lists that	15	THE VIDEOGRAPHER: The time is 9:25 a.m.
16	you have read the Purdie case, which is a 1995	16	We're going off the record.
17	case study excuse me, not case study, but a	17	(Pause in the proceedings.)
18	scientific article.	18	THE VIDEOGRAPHER: The time is 9:27 a.m.
19	MS. BROWN: Objection to the form.	19	and we are back on the record.
20	Take your time to get to that page,	20	(Diette Exhibit No. 4 was marked
21	Doctor.	21	for identification.)
22	THE WITNESS: It's 7 in my report?	22	MS. PARFITT: Ready?
23	BY MS. PARFITT:	23	THE VIDEOGRAPHER: Oh, yeah, we're on.
24	Q It is on page 7 of your report.	24	MS. PARFITT: Okay. Thank you.
25	MS. BROWN: And, Counsel, I think we	25	BY MS. PARFITT:
	Page 43		Page 45
1	have a disconnect here. Are you referring to the	1	Q Dr. Diette, let me show you what's been
2	7 of the reliance list?	2	Q Dr. Diette, let me show you what's been marked as Plaintiffs' Exhibit No. 4 to the Diette
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		1	
	Page 46		Page 48
1	epithelial ovarian cancer can be estimated to be	1	BY MS. PARFITT:
2	approximately 30 to 40 years?	2	Q Sure. And, you know, that might be
3	A Well, I think, you know so there's no	3	that might be fair. So let me go for a third try.
4	way for me to know for sure, right, but could	4	Okay?
5	be it seems like a pretty safe statement	5	A Okay.
6	because it could be more, it could be less.	6	Q Do you develop public health programs
7	It's also an incomplete sentence, right,	7	for Johns Hopkins?
8	in the sense that when you talk about the latency,	8	A I'm trying to think I would say
9	you talk about the latency between a particular	9	generally, no. I mean
10	kind of exposure. I mean, in this context, right,	10	Q It's not part of your role.
11	there may have other there may be other ways	11	MS. BROWN: Well, let him finish. I'm
12	people use that word, but in this context it's the	12	sorry.
13	time from the exposure to the development of the	13	THE WITNESS: But I don't know I
14	disease. So there's no exposure mentioned in that	14	mean, I don't know what I mean that's a pretty
15	sentence, so it's a little a little loose, you	15	broad topic, which is what's a public health
16	know.	16	program. So I'm just thinking like, for example,
17	MS. PARFITT: All right. Move to strike	17	you know, I've done work with asthma in in the
18	that last part of your statement.	18	inner city nearby.
19	BY MS. PARFITT:	19	BY MS. PARFITT:
20	Q Okay. Dr. Diette, do you agree that	20	Q Correct.
21	it's imperative to develop public health programs	21	A And we certainly have a program, you
22	that either reduce the incidence or detect ovarian	22	know, that deals with with that. I wouldn't
23	cancer at an earlier stage?	23	say I've developed it as a public health program
24	A It's an agreeable statement.	24	per se but as a as a research program. But,
25	Q Okay. In developing public health	25	you know, where public health starts and stops,
	Dago 47		
	Page 47		Page 49
1		1	
1 2	programs, does in order to set up preventive programs, detection programs, does that include	1 2	Page 49 I'm not exactly sure. Q Fair enough.
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2	programs, does in order to set up preventive programs, detection programs, does that include	2	I'm not exactly sure.  Q Fair enough.
2 3	programs, does in order to set up preventive programs, detection programs, does that include getting information about whatever the putative	2 3	I'm not exactly sure.  Q Fair enough.  All right. Talcum powder products are
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	Page 50		Page 52
1	Johnson & Johnson how many bottles of their Shower	1	BY MS. PARFITT:
2	to Shower they distributed?	2	Q Okay. Let me show you what I'll have
3	A No.	3	marked as Exhibit
4	MS. BROWN: Same objection.	4	MS. PARFITT: Where are we?
5	BY MS. PARFITT:	5	MR. ROSEN: Five.
6	Q All right. Have you ever purchased	6	BY MS. PARFITT:
7	talcum powder products?	7	Q 5. And I'll represent to you,
8	A I I don't do the shopping. You know,	8	Dr. Diette, that this is a bottle of Johnson's
9	and so it like, I don't I don't buy anything	9	Baby Powder, and we'll have it marked as Exhibit
10	at the store.	10	No. 5.
11	Q Okay. Fair enough.	11	(Diette Exhibit No. 5 was marked
12	Are you aware of the fact that Johnson &	12	for identification.)
13	Johnson continues to sell their talcum powder	13	BY MS. PARFITT:
14	products?	14	Q Now, my understanding is that you are
15	A I wasn't aware that they weren't. I	15	trained, skilled, and have expertise in pulmonary
16	mean, I don't know where I would get that from,	16	medicine, correct?
17	but as best as I can tell.	17	A Among other things.
18	Q All right. Have you ever looked at the	18	Q And I didn't mean to limit your
19	back of a Johnson & Johnson's Baby Powder product	19	expertise. Okay.
20	to see what it says about its usage	20	If you will, let me show pass to you
21	MS. BROWN: Objection.	21	the Exhibit No. 5, and ask that you turn it to the
22	BY MS. PARFITT:	22	back. Look at the bottle.
23	Q and direction?	23	MS. BROWN: Counsel, before he does
24	MS. BROWN: Excuse me. Objection to the	24	that, will you put represent on the record
25	form of the question.	25	where this bottle that you've marked as Exhibit 5
	Page 51		Page 53
1	THE WITNESS: It's possible that I have	1	came from and when it was purchased and by whom?
2	years ago, but not not recently.	2	MS. PARFITT: Counsel, I'm asking the
3	BY MS. PARFITT:	3	questions. I just represent that it is a bottle
4	Q Nothing recent.	4	of Johnson & Johnson's Baby Powder purchased from
5	How about since you were retained by	5	a store.
6	Johnson & Johnson as an expert, have you ever	6	MS. MILLER: Michelle, I'm trying
7	looked at a bottle of Johnson & Johnson's Baby	7	really, really hard not to say a word today.
8	Powder or Shower to Shower?	8	MS. PARFITT: Sure.
9	MS. BROWN: Same objection.	9	MS. MILLER: I know that I'll annoy
10	THE WITNESS: No. I've seen pictures,	10	you
11	you know, in different settings, but I haven't	11	MS. PARFITT: Oh, no, you're not.
12	I haven't seen a bottle of it or looked at it.	12	MS. MILLER: but it's not Johnson &
13	BY MS. PARFITT:	13	Johnson's Baby Powder. It's Johnson's Baby
14	Q Okay. Do you have an understanding as	14	Powder, and you keep saying it wrong.
15	to whether or not Johnson & Johnson's Baby Powder	15	MS. PARFITT: That's fine. That's fine.
16	or the Shower to Shower contains a warning on its	16	MS. MILLER: And I think for the record,
17	product against use in the genital area to avoid	17	it's important. It's a product by JJCI, as you
18	ovarian cancer?	18	know.
19	MS. BROWN: Objection to the form.	19	MS. PARFITT: That's fine.
20	THE WITNESS: I don't know whether they	20	MS. MILLER: So we just need
21	do or don't. But I'm also not, you know, skilled	21	Johnson's
22	in warnings. So I wouldn't I mean, I even	22	MS. PARFITT: Okay. And why don't we
	if it said something, I wouldn't necessarily be	23	whenever I since I'm sure I won't remember all
23	ii it said something, i wouldn't necessarily be		
23 24	the person to tell you whether that's a warning or	24	that, why don't we just reflect for the record
		24 25	

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	Page 54	Page 56
1	that it's Johnson's Baby Powder. Okay?	1 expert work for them?
2	MS. BROWN: And just to get my my	2 MS. BROWN: Objection to the form.
3	objection on the record to what you marked as	3 THE WITNESS: I believe so, yeah.
4	Exhibit 5, we have no representation of when this	4 BY MS. PARFITT:
5	was bought, by whom it was bought.	5 Q Okay. Had you ever worked for Johnson &
6	With that, Dr. Diette, here is	6 Johnson or any of their entities prior to 2017 in
7	Exhibit 5.	7 any type of litigation?
8	MS. PARFITT: Thank you.	8 MS. BROWN: Same objection.
9	BY MS. PARFITT:	9 THE WITNESS: I I don't think so. I
10	Q All right, Dr. Diette, look at the back	10 would say almost certainly no.
11	of that. Do you see that there's a little picture	11 BY MS. PARFITT:
12	that looks like a little baby with an X on it?	Q Okay. Since your retention in 2017, did
13	A I do.	Johnson & Johnson, their medical department, their
14	MS. BROWN: Objection to the form.	regulatory department, science department, ever
15	BY MS. PARFITT:	ask that you take a look at the back of the
16	Q Okay. Okay. What does that say on the	product, Johnson's Baby Powder, for purposes of
17	back of the product?	giving an opinion as to what scientific and
18	A It says: "Warning: Keep powder away	medical information should be on that product?
19	from child's face to avoid inhalation, which can	
20		MS. BROWN: Objection to the form of the question.
21	cause breathing problems. Avoid contact with the eyes. For external use only."	21 THE WITNESS: I would be the wrong kind
22	Q Okay. And at the bottom of that	of expert for that. I mean I'm not a warnings
23	- ·	expert, so it wouldn't wouldn't make any sense
23 24	product, does it happen to say what's contained in	
25	it?	for anybody to ask me that question.  BY MS. PARFITT:
23	MS. BROWN: Objection to the form of the	DI W.S. FARFIII.
	Page 55	Page 57
_		
1	question.	Q I'm not asking you about the adequacy of
1 2	question.  THE WITNESS: It has a line called	
	THE WITNESS: It has a line called	the warning. I'm asking you about your expertise
2	•	
2	THE WITNESS: It has a line called "Ingredients," which says "Talc, fragrance." BY MS. PARFITT:	<ul><li>the warning. I'm asking you about your expertise</li><li>as a pulmonary medicine expert with regard to</li></ul>
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	Page 58		Page 60
1	warning we're talking about, right?	1	you have who have a different opinion with regard
2	BY MS. PARFITT:	2	to the causality of talcum powder products and
3	Q The one that's on the back, yeah.	3	ovarian cancer?
4	A So it's still still the same.	4	MS. BROWN: Objection to the form.
5	Q Okay. And just for the record, we're	5	THE WITNESS: Well, I've seen like, for
6	going to put on the ELMO thank you. Just go	6	example, the expert reports that are that are
7	ahead and see if we can get that on there. Okay.	7	part of this matter and some of the deposition
8	(Counsel conferring.)	8	transcripts. So so, yes, I mean I've seen what
9	BY MS. PARFITT:	9	they've said.
10	Q And again, for clarity of the record,	10	BY MS. PARFITT:
11	what we've been talking about is on the child	11	Q Okay. And from your review of those
12	with the X over the nose and mouth and the warning	12	expert reports, do you understand that many of
13	that is to the far right, correct?	13	those scientists and epidemiologists are
14	MS. BROWN: Objection to the form.	14	individuals who treat women who have been
15	THE WITNESS: I was with you until you	15	diagnosed for ovarian cancer? Do you understand
16	said "to the far right." I don't know	16	that?
17	BY MS. PARFITT:	17	MS. BROWN: Objection. Lacks
18	Q To the right of the baby.	18	foundation, calls for speculation.
19	A Oh, I see. I'm sorry.	19	THE WITNESS: So I saw that there were
20	Q Yeah, no problem.	20	
	A Yeah. No, that's	21	some GYN oncologists involved. I don't remember the count of them, but I saw there were GYN
21			*
22	Q That's what we're talking about.	22	oncologists, both on the defense and the
23	A It's to the right of the baby, yeah.	23	plaintiffs' side.
24	Q Okay. Very good. All right.	24	BY MS. PARFITT:
25	Dr. Diette, as a scientist and a	25	Q Okay. And the GYN oncologists would be
	Page 59		Page 61
1	clinician, do you have a belief or opinion that	1	the practice of medicine that treats women for
2	women should be informed of even a potential risk	2	reproductive diseases and cancers like ovarian
3	of using talcum powder products on their genital	١ ،	
	or using talearn powder products on their gentar	3	cancer, correct?
4	area?	4	cancer, correct?  MS. BROWN: Objection.
4 5	area?		MS. BROWN: Objection.
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5	area?	4 5	MS. BROWN: Objection.
5 6	area?  MS. BROWN: Objection.  THE WITNESS: Not based on what I've reviewed.	4 5 6	MS. BROWN: Objection.  THE WITNESS: They they would be the ones that provide treatment for the GYN cancers.  BY MS. PARFITT:
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	Page 62		Page 64
1	treat and care for women treat and care and	1	that.
2	provide gynecological and oncological care to	2	BY MS. PARFITT:
3	women who have been diagnosed with ovarian cancer?	3	Q Okay. What is your understanding of the
4	MS. BROWN: Objection to the form.	4	testing that's been performed by Johnson & Johnson
5	THE WITNESS: Mostly, no, although	5	on their talcum powder products?
6	I'll just there was a lot in your question,	6	MS. BROWN: Objection. That's overly
7	right, so that	7	broad.
8	BY MS. PARFITT:	8	THE WITNESS: Well, like the type
9	Q You want me to break it down?	9	MS. BROWN: You mean internal, external,
10	MS. BROWN: Let him finish first, and	10	third party, FDA?
11	then you can follow up. He has to be allowed to	11	BY MS. PARFITT:
12	answer your question.	12	Q Do you understand the question?
13	MS. PARFITT: Oh, absolutely, but if	13	A I was actually going to say something
14	it's unclear that was one of the	14	similar to what Ms. Brown said but less
15	THE WITNESS: I didn't say it was	15	sophisticated.
16	unclear. I just said it it's complicated, so	16	I mean what I meant was, were you asking
17	there's more than it's not just a simple	17	about like the kinds of tests that were done or
18	answer.	18	or things of that sort? I just I just know,
19	MS. PARFITT: Let me withdraw the	19	generally speaking, that there has been testing
20	question.	20	done.
21	MS. BROWN: Wait, Counsel, he's not	21	Q Sure. Let me make it very simple.
22	done.	22	Are you aware of studies strike that.
23	Dr. Diette, you finish your answer, and	23	Have you seen studies done by Johnson &
24	then counsel, of course, will follow up.	24	Johnson that tested and evaluated their talcum
25	BY MS. PARFITT:	25	powder products for the presence of asbestos?
	Page 63		Page 65
1		1	
	Q Okay. Go ahead.	1	MS. BROWN: Same objection. THE WITNESS: I don't think I've seen
2 3	A Thank you. O Sure.	2 3	
4	•		anything from Johnson & Johnson, per se.
5	A So, you know, I wouldn't be the person	4 5	Is that what is that what you're
6	who prescribes chemotherapy or provides the surgery. Part of my work is as an intensive care	6	referring to? BY MS. PARFITT:
7	- · ·	7	
8	doc in the oncology center, and so I'll see people with every kind of cancer possible and provide		Q That is, yes.
	1 1	8	A Okay. Then not not that I'm aware
9	some of the care to them.	9	of.
10	I see people in my clinic that have, you	10	Q All right. I saw where you looked at
11	know, pulmonary consequences of some of their	11	the depositions of Drs. Longo and Rigler.
12	treatment for ovarian cancer. And so it's it's	12	MS. BROWN: Objection to the form.
13	not a straightforward yes or no that I do or don't	13	THE WITNESS: Is that in a different
14	participate, but I don't do the the GYN onc	14	case?
15 16	part of that care.	15	BY MS. PARFITT:
16 17	Q All right. Have you in your practice of	16	Q Good question. You have their
17	pulmonary medicine ever diagnosed a woman with	17	depositions listed as part of the materials
18	ovarian cancer?	18	reviewed and relied upon. Have you read those?
19	A I can't remember ever doing that.	19	MS. BROWN: Objection.
20	Q All right. Now, Dr. Diette, are you	20 21	If you want to refresh yourself on your
20	arriana af rrib ath an	1 ZI	reliance list, I'm sure counsel will point you to
21	aware of whether or not strike that.	1	the mage
21 22	Are you aware that Johnson & Johnson has	22	the page.
21 22 23	Are you aware that Johnson & Johnson has tested their talcum powder products?	22 23	MS. PARFITT: Absolutely.
21 22	Are you aware that Johnson & Johnson has	22	

	Page 66		Page 68
1	me one second. I apologize here.	1	Q But my question
2	Okay. It's your reference materials	2	MS. PARFITT: And noted.
3	reviewed and considered start on or in	3	BY MS. PARFITT:
4	Appendix B of your report.	4	Q My question to you is, sitting here
5	Do you see that?	5	today, what I need to know and if it's no,
6	A I don't see Longo and Rigler.	6	that's a fine answer. If it's yes, that's a fine
7	Q Okay. At the very top, it has	7	answer.
8	"Materials Reviewed and Considered by Gregory	8	Have you read the expert report of
9	Diette," and the second item under "Expert	9	Drs. Longo and Rigler dated November 14, 2018?
10	References" says "Expert report of William Longo	10	If you did, I'm not I'm not
11	and Mark Rigler."	11	MS. BROWN: Objection to the form. I
12	Do you see that?	12	think he answered that.
13	A Oh, I do, yeah. So I see Longo, and I'm	13	Counsel, I think what you're really
14	just	14	after is, is he relying on that to form his
15	Q Do you see Rigler? He's right after	15	opinion.
16	that. It says William	16	MS. PARFITT: Actually, I'm not. That's
17	A Oh, got you.	17	a good question, but I'm not asking that.
18	MS. BROWN: Counsel, these are reports.	18	BY MS. PARFITT:
19	I thought your question was about a deposition.	19	Q Did you read the report?
20	MS. PARFITT: That's a that's a fair	20	A So I I'm not sure if I read this one
21	objection.	21	with this particular date.
22	BY MS. PARFITT:	22	Q That's fine.
23	Q Have you read the expert report of	23	A But wait, wait. But, you know, if
24	William Longo and Mark Rigler?	24	it's on here, because that's what it reminds me
25	A So, because I see there's a date on it	25	of, I don't have a specific memory for this matter
	Page 67		Page 69
1	of November 14th, 2018	1	because I've been reading some of these things for
2	Q Correct.	2	other matters as well. So I you know, I don't
3	A I know I've seen at least a few of	3	remember whether whether I read that particular
4	Dr. Longo's reports, and I I think they're the	4	one, but if it looked like other ones that I had,
5	same over and over again. So I if I if I'm	5	I would have, you know, touched it, opened it,
6	not mistaken, I don't think I would have reread it	6	looked to see what was in there, and then not read
7	like, you know, specifically for this matter if it	7	every word of it. But I don't remember which way
8	looked the same as others. I think I probably	8	it worked.
9	just like flipped through it to see what it was	9	Q Sitting here today, are you able to tell
10	was there generally.	10	me the results of Dr. Longo and Rigler's testing
11	Q All right. So I understand your answer,	11	of Johnson & Johnson's talcum powder products as
12	is your testimony that you don't recall	12	reflected in their expert reports of November 14,
13	specifically reviewing the November 14th, 2018	13	2018?
14	expert report of Dr. Longo's and Rigler?	14	MS. BROWN: Objection to the form.
14 15	expert report of Dr. Longo's and Rigler?  MS. BROWN: Objection to the form,	14 15	MS. BROWN: Objection to the form. THE WITNESS: I don't remember the
14 15 16	expert report of Dr. Longo's and Rigler?  MS. BROWN: Objection to the form, misstates his testimony.	14 15 16	MS. BROWN: Objection to the form. THE WITNESS: I don't remember the details, but I could I could look that up and
14 15 16 17	expert report of Dr. Longo's and Rigler?  MS. BROWN: Objection to the form, misstates his testimony.  MS. MILLER: So can I say something?	14 15	MS. BROWN: Objection to the form. THE WITNESS: I don't remember the details, but I could I could look that up and pull pull out what I saw.
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Q And let me explore that, because this is 11 Right. So I I can tell you I think I have
the only time I will have a chance to talk to you   12 to diverge a little bit to answer your question.
before that Daubert hearing.  13 if I can, just to say that unless you don't
14 A Sure. 14 want me to. Feel free to
15 Q Are you, for purposes of your opinion 15 MS. BROWN: No, you should answer the
16 that you're sharing will share with me today  16 question  17 and will share with the court in July relying on 17 THE WITNESS: Okey
and will share with the court in July, relying on 17 THE WITNESS: Okay.
any of the test results of Drs. Longo and Rigler  18 MS. BROWN: as honestly and contained in their reports of November 14, 2018?  19 truthfully and accurately as you can.
,,
21 exactly right, because to me "rely on" has some 21 mean, asbestos in terms of at least its commercial, you know, forms is something that's
23 And so it doesn't it doesn't inform 23 in that's in asbestiform fiber, right. It's in
24 my opinion, but I'm aware of what his general 24 asbestiform habit. And so I think, you know, for
25 position has been. And so but I don't I  25 me to understand the minerals, when we're talking
r-state and state and stat

	Page 74		Page 76
1	about asbestos, we're talking about a particular	1	would not alter your analysis, and I assume
2	kind of mineral that's in a particular form or	2	opinions, with regard to talcum powder products
3	habit.	3	causing ovarian cancer.
4	And so I I think when you're talking	4	A That's in my report?
5	about an asbestiform fiber, there's some	5	Q Yes.
6	redundancy there in a way, right, which is that	6	A Can we flip to that?
7	that's a description that you could apply to	7	Q Sure. Why don't you go to page 3.
8	something that other people would call asbestos.	8	And if I may, it's at the bottom,
9	BY MS. PARFITT:	9	paragraph 6.
10	Q All right. Fine. Thank you.	10	A I'm with you, yeah.
11	Has Johnson & Johnson provided you with	11	Q Okay. And it says: "To the extent
12	any testing that they performed on their product?	12	plaintiffs' expert opined that asbestos is an
13	MS. BROWN: Objection.	13	accessory mineral present in cosmetic talc that
14	BY MS. PARFITT:	14	causes ovarian cancer, this theory would not alter
15	Q Shower to Shower or Johnson's Baby	15	the analysis because the existing epidemiological
16	Powder.	16	literature regarding talc use would
17	MS. BROWN: Objection.	17	necessarily"
18	THE WITNESS: I don't think I have seen	18	MS. BROWN: You're reading it
19	anything.	19	MS. PARFITT: Beg your pardon?
20	BY MS. PARFITT:	20	MS. BROWN: You read it wrong. Perineal
21	Q Did you ever ask Johnson & Johnson to	21	talc use.
22	see any of the testing that they performed on	22	MS. PARFITT: Oh, I'm sorry. Perineal.
23	their own talcum powder products?	23	Thank you.
24	MS. BROWN: Objection. Asked and	24	BY MS. PARFITT:
25	answered.	25	Q "perineal talc use would necessarily
	2 75		5
	Page 75		Page 77
1	THE WITNESS: I have not.	1	account for the presence of any asbestos in the
2			
	BY MS. PARFITT:	2	products used in both studies."
3	Q Okay. Dr. Diette, are you aware that	2 3	products used in both studies."  Did I now read that correctly, with
3 4	Q Okay. Dr. Diette, are you aware that there are generic talcum powder products being	2 3 4	products used in both studies."  Did I now read that correctly, with counsel's correction?
3 4 5	Q Okay. Dr. Diette, are you aware that there are generic talcum powder products being sold in the marketplace today that contain an	2 3 4 5	products used in both studies."  Did I now read that correctly, with counsel's correction?  A Yeah, you're you've got it right now.
3 4 5 6	Q Okay. Dr. Diette, are you aware that there are generic talcum powder products being sold in the marketplace today that contain an ovarian cancer warning for individuals who use it	2 3 4 5 6	products used in both studies."  Did I now read that correctly, with counsel's correction?  A Yeah, you're you've got it right now.  Q Okay. What do you mean by that
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all over the world, right. And so everything comes down to dose in any case, right. So to be concerned about it, you'd have to show that there's a sufficient dose that a person go in order to raise the risk of whatever it is the you're talking about.  A No.  Q You will not.  Q Have you made an assumption then for purposes of your opinion that Johnson's – that  Johnson & Johnson's talcum powder products do not to contain asbestos?  A I will not.  Q Have you made an assumption then for purposes of your opinion that Johnson's – that  Johnson & Johnson's talcum powder products do not to contain asbestos?  Let I recognize that there's a debate about that, and I don't have the expertise to sort through that ferbate.  Johnson's talcum powder products base to it. Are you with me?  A I am, yeah.  A I am I am product in the right of the right of the products to consumers to use it in their genital areas?  MS. BROWN: Objection. Counsel, that's an incomplete hypothetical. Is that the same tale that is in the epi?  MS. PARFITT:  MS. BROWN: Objection to the incomplete hypothetical.  MS. BROWN: Objection to the incomplete hypothetical.  THE WITNESS: So, anyway, so the needless part, I think — I'm not sure if you need that in your question or whether it changes how I would answer it. I think the general issue is whether or not there's a risk of — did you say "ovarian cancer" in your question?  MS. PARFITT:  MS. BROWN: Objection to the incomplete hypothetical.  THE WITNESS: So, anyway, so the needless part, I think the general issue is whether or not there's a risk of whether there's a danger. And from what I can tell from reading the literature, that there's not a risk of — did you say "ovarian cancer" in your question?  MS. PARFITT:  A I am, yeah.  A I am yeak.  A I fire the world, right And bout that there's a by our's talking about.  BY MS. PARFITT:  BY MS. PARFITT:  Q Please.  A If we're talking about what exists the world right now,	age 80
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reasonable for Johnson & Johnson to sell that 19 you aware of that?	
21 MS. BROWN: Objection to the incomplete 21 Q Okay. And the deposition that wa	was taken
hypothetical. 22 of Dr. Nicholson was a deposition that was	
23 THE WITNESS: So I think, you know, it 23 wherein she we call it a 30(b)(6). That	
24 isn't a yes or no, right? I mean, because it's 24 she represents the voice of the company the	
25 if you're talking about asbestos, there's asbestos 25 works for. Understand?	1111 SHC
works for. Oligorstalig.	

	Page 82		Page 84
1	MS. BROWN: Objection to the form of the	1	Q Okay. At the top, if I may, it says
2	question.	2	line 2: "Well" and I'll represent to you that
3	THE WITNESS: I understand what you	3	I was one of the attorneys that took
4	said. I don't know what I if I understand what	4	Dr. Nicholson's deposition.
5	that means.	5	The question is: "Well, if your
6	MS. PARFITT: Okay. All right. Let me	6	products contain asbestos, would you agree with me
7	have marked as Exhibit I believe it's	7	that that impacts the safety of the product?"
8	Exhibit No. 6 that we're on.	8	Answer: "Absolutely, yes."
9	(Diette Exhibit No. 6 was marked	9	Next question: "Would you agree that
10	for identification.)	10	Johnson & Johnson has a zero tolerance policy with
11	MS. BROWN: And, Counsel, if you're	11	regard to having asbestos in their talcum powder
12	going to ask him questions about Dr. Nicholson's	12	products?"
13	deposition that he has not reviewed, we need to at	13	The answer: "Yeah, that is correct."
14	least have a full copy of the deposition here.	14	Next question: "In fact, as a
15	Thanks.	15	representative of the company, it's your position
16	MS. PARFITT: I believe you have	16	that your Johnson & Johnson's talcum powder
17	MS. BROWN: And you should take as long	17	products should not contain asbestos; is that
18	as you need to review it to answer any questions	18	correct?"
19	counsel might have.	19	"That's correct that is correct."
20	MS. PARFITT: Okay. And, Counsel, I'll	20	Next question: "And you would agree
21	get you that I don't have a copy	21	with me that if your talcum powder products had
22	MS. BROWN: We have I mean your	22	asbestos in them, it would place the consumers
23	colleague just	23	that use your product in needless danger,
24	MS. PARFITT: We have just one. I'm	24	correct?"
25	just saying we just have one. I don't have one	25	"It could, yes."
	Page 83		Page 85
1	for you.	1	Next question on page 48 of that same
2	for you.  MS. BROWN: As long as the doctor has	2	Next question on page 48 of that same deposition
2	for you.  MS. BROWN: As long as the doctor has time to review it you know he hasn't seen this	2	Next question on page 48 of that same deposition MS. BROWN: Counsel, I'm sorry, but your
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	Page 86		Page 88
1	questions?	1	Did I read all that correctly?
2	MS. BROWN: But, Counsel, that's not	2	A You did.
3	even a transcript. What is that?	3	Q All right. Do you so you disagree
4	MS. PARFITT: It's	4	with Dr. Nicholson; is that correct?
5	MS. MILLER: How are you going to mark	5	MS. BROWN: Objection to the form.
6	that as an exhibit?	6	MR. LOCKE: Objection.
7	MS. PARFITT: I'm going to put an	7	MS. BROWN: Misstates his testimony.
8	exhibit sticker on it, and I'm going to put it in	8	THE WITNESS: I don't I don't agree
9	as representative pages from the Nicholson	9	or disagree. I mean, I I honestly don't know
10	deposition.	10	who she is other than what you just said. But
11	MS. BROWN: Can he find it in the large	11	but it sounds like she's articulating a policy for
12	copy?	12	the company, which I think is her right her
13	MR. ROSEN: Would you mind passing	13	right to do that and to express those opinions.
14	back Exhibit 6 that we handed	14	BY MS. PARFITT:
15	THE WITNESS: Oh. This is all of your	15	Q Okay. All right.
16	36's. That's a whole bundle of the same thing.	16	Okay. Now, counsel provided for us in
17	But I would like to get the 36-page	17	advance of this deposition a copy of your CV. So
18	back	18	let me
19	MS. PARFITT: Sure.	19	THE WITNESS: Would it would it be a
20	THE WITNESS: if we're going to talk	20	good time just to refill coffee? Is that okay?
21	about it.	21	MS. PARFITT: Sure. And I should have
22	MS. PARFITT: Absolutely. I want you to	22	said that. Any time you need a break
23	have actually 37, and you need here we go.	23	THE WITNESS: No, I know.
24	MS. BROWN: This is the complete set?	24	MS. PARFITT: you holler.
25	MS. PARFITT: Yes, I'm assuming.	25	THE WITNESS: Thank you. I appreciate
	Mo. 11114 111. 100, 111 usouming.		, , , , , , , , , , , , , , , , , , ,
	Page 87		Page 89
1	MS. BROWN: You have that in front of	1	that.
2	you?	2	MS. PARFITT: You're very welcome.
3	THE WITNESS: I do.	3	THE VIDEOGRAPHER: The time is 10:07
4	BY MS. PARFITT:	4	p.m. We're going off the record.
5	Q And, Dr. Diette, if you have any trouble	5	(Recess.)
6	reading any of that or you can also look up on	6	THE VIDEOGRAPHER: The time is
7	the ELMO that's being displayed.		
_		7	10:20 a.m., and we're back on the record.
8	MS. BROWN: Thank you.	7 8	10:20 a.m., and we're back on the record. BY MS. PARFITT:
9			
	MS. BROWN: Thank you.	8	BY MS. PARFITT:
9	MS. BROWN: Thank you. MS. PARFITT: Okay. Yeah, sorry.	8 9	BY MS. PARFITT:  Q Dr. Diette, are you still
9 10	MS. BROWN: Thank you. MS. PARFITT: Okay. Yeah, sorry. BY MS. PARFITT:	8 9 10	BY MS. PARFITT:  Q Dr. Diette, are you still THE VIDEOGRAPHER: Microphone, Counsel.
9 10 11	MS. BROWN: Thank you. MS. PARFITT: Okay. Yeah, sorry. BY MS. PARFITT: Q Again, page 48, line 14.	8 9 10 11	BY MS. PARFITT:  Q Dr. Diette, are you still  THE VIDEOGRAPHER: Microphone, Counsel. BY MS. PARFITT:
9 10 11 12	MS. BROWN: Thank you. MS. PARFITT: Okay. Yeah, sorry. BY MS. PARFITT: Q Again, page 48, line 14. Do you have that there, Doctor, in front	8 9 10 11 12	BY MS. PARFITT:  Q Dr. Diette, are you still  THE VIDEOGRAPHER: Microphone, Counsel. BY MS. PARFITT:  Q Are you good?
9 10 11 12 13	MS. BROWN: Thank you. MS. PARFITT: Okay. Yeah, sorry. BY MS. PARFITT: Q Again, page 48, line 14. Do you have that there, Doctor, in front of you?	8 9 10 11 12 13	BY MS. PARFITT:  Q Dr. Diette, are you still  THE VIDEOGRAPHER: Microphone, Counsel. BY MS. PARFITT:  Q Are you good?  A All set. Thank you.
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	Page 90		Page 92
1	MS. BROWN: Objection to the form of the	1	papers that have been either accepted or published
2	question.	2	since then. There's probably some talks and
3	THE WITNESS: You would have to qualify	3	things. The the grant award section I'm sure
4	it, right, because I if you're talking about	4	needs updating.
5	like even like, you know, one fiber or	5	Q Okay. It looks, on the far right of
6	something would be quite different than if there's	6	that CV, that it's got a June 2017 date; is that
7	a sufficient amount in order to to cause a	7	correct?
8	disease, right. So it it always comes down to	8	A It is.
9	dose in terms of what you're talking about.	9	Q All right. Has there been a curriculum
10	So it's all by itself, I don't think	10	vitae prepared by you since June of 2017?
11	that that question is answerable.	11	A No.
12	BY MS. PARFITT:	12	Q All right. Where would I get these
13	Q Can one fiber of asbestos alone cause	13	additional articles and speeches? Do you have
14	cancer?	14	them in a contained in one particular place?
15	MS. BROWN: Objection to the form.	15	A No. Where where you could get the
16	THE WITNESS: It's it's so impossible	16	articles would be on PubMed, and if you just did a
17	to think that it would, because we all have	17	PubMed search with my name, you would find them
18	asbestos in our lungs, and there's a background	18	all.
19	amount of asbestos in the world that if one fiber	19	For speeches, I don't actually have a
20	could do it, I think we would all have cancer. So	20	repository, so it's going to take me some work to
21	I I think somebody could say that, but I don't	21	actually sort of populate that part of the CV.
22	think it would be true.	22	Q Are you do you have any intention of
23	BY MS. PARFITT:	23	updating your CV?
24	Q You certainly don't think it's true; is	24	A Yes. Can I give you an extra sentence
25	that correct?	25	or two?
	Page 91		Page 93
1	A Oh, for sure, yeah.	1	Q Sure.
1 2	<ul><li>A Oh, for sure, yeah.</li><li>Q Okay. Let me mark at this time a</li></ul>	1 2	<ul><li>Q Sure.</li><li>A Okay. So I sure want to. The stakes</li></ul>
2	Q Okay. Let me mark at this time a	2	A Okay. So I sure want to. The stakes are low for me at this point. This is our
2	Q Okay. Let me mark at this time a copy a copy of your curriculum vitae, and we'll	2 3	A Okay. So I sure want to. The stakes are low for me at this point. This is our
2 3 4	Q Okay. Let me mark at this time a copy a copy of your curriculum vitae, and we'll have it marked as exhibit Exhibit 7.	2 3 4	A Okay. So I sure want to. The stakes are low for me at this point. This is our Department of Medicine format CV, which we use for
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2 3 4 5 6	Q Okay. Let me mark at this time a copy a copy of your curriculum vitae, and we'll have it marked as exhibit Exhibit 7.  (Diette Exhibit No. 7 was marked for identification.) BY MS. PARFITT:	2 3 4 5 6	A Okay. So I sure want to. The stakes are low for me at this point. This is our Department of Medicine format CV, which we use for promotion purposes, for the most part. I've been promoted to professor, which there's no other rank
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q Okay. Let me mark at this time a copy a copy of your curriculum vitae, and we'll have it marked as exhibit Exhibit 7.  (Diette Exhibit No. 7 was marked for identification.) BY MS. PARFITT:  Q Do you have that in front of you?  A I do.  Q Okay. Who prepared that curriculum vitae?  A Well, not one person. This is an iterative exercise over time. So it's I mean, me in the sense, although not as the person, you know, typing the words, but it's you know, it's my my information on here. And I've had different administrative assistants who have who have helped to sort of shape it.  Q Is it current?  A No.  Q It's not?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A Okay. So I sure want to. The stakes are low for me at this point. This is our Department of Medicine format CV, which we use for promotion purposes, for the most part. I've been promoted to professor, which there's no other rank to get promoted to. And so it's not really that urgent for me to to change that.  Then on top of that, my administrative assistant went out on maternity leave, and then I didn't want to swamp her with this when she came back.  Q That was nice.  A And literally just last week, she took a new job, a better job but in a different place.  So long answer, yeah, I want to, but it's not going to happen really soon.  Q Okay. So your current academic appointment at Johns Hopkins University, is that a professor of medicine, is that correct, Division of Pulmonary and Critical Care?

	Page 94		Page 96
1	A And sleep, yeah.	1	hospital as well.
2	Q All right. Are you still within the	2	Q All right. So if someone were going on
3	Department of Epidemiology?	3	the website to look at the hospital, the medical
4	A Yes.	4	school, medical center, this is what they would
5	Q All right. Are you still an associate	5	see. And look over to the far right, and it has
6	professor of medicine in epi and environmental	6	"Expertise." Do you see that?
7	health?	7	A I do.
8	A No, that's a typo somewhere. I don't	8	Q All right. Is it reads: "Expertise:
9	know where you saw that, but oh, probably in my	9	Asthma, chronic obstructive pulmonary disease
10	report. But, no, I'm the professor label	10	(COPD), pulmonary" excuse me "pulmonary
11	carries across all the the different entities.	11	disease, and critical care medicine, pulmonary
12	Q So you're no longer an associate	12	medicine."
13	professor.	13	Is that correct?
14	A Right. Professor of whatever it is that	14	A It is correct.
15	I'm a professor of.	15	Q All right. Is there anything you want
16	Q All right. Your board certification is	16	to add with regard to your expertise?
17	in pulmonary and critical care?	17	MS. BROWN: Objection to the form of the
18	A It's in internal medicine and pulmonary	18	question.
19	medicine.	19	THE WITNESS: So I honestly don't know
20	Q You're not a member of the American	20	what this is. I mean, I don't doubt that it comes
21	College of Epidemiology, correct?	21	from Hopkins, but it's not something I look at.
22	A No.	22	BY MS. PARFITT:
23	Q Your undergraduate degree was in	23	Q Okay.
24	English?	24	A If you well, no, just one second.
25	A English and economics.	25	Because if you look at the bottom, it says
		43	because if you look at the bottom, it says
		23	because if you look at the bottom, it says
	Page 95	23	Page 97
1		1	
	Page 95		Page 97
1	Page 95  Q Okay. And then post-medical school, you	1	Page 97 "Request an appointment." So this looks like some
1 2	Page 95  Q Okay. And then post-medical school, you received a MHS in public health; is that correct?	1 2	Page 97  "Request an appointment." So this looks like some kind of place that somebody could go and find a
1 2 3	Page 95  Q Okay. And then post-medical school, you received a MHS in public health; is that correct?  A Well, it was in epidemiology.	1 2 3	Page 97  "Request an appointment." So this looks like some kind of place that somebody could go and find a call-in number to get an appointment for for a
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1 2 3 4 5	Page 95  Q Okay. And then post-medical school, you received a MHS in public health; is that correct?  A Well, it was in epidemiology.  Q Okay.  A I only just say that because there is a	1 2 3 4 5	Page 97  "Request an appointment." So this looks like some kind of place that somebody could go and find a call-in number to get an appointment for for a doctor.  Q Okay.
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Page 95  Q Okay. And then post-medical school, you received a MHS in public health; is that correct?  A Well, it was in epidemiology. Q Okay. A I only just say that because there is a degree in public health, and that's not what mine was called. Q Okay. Let me show you what we'll have marked as the Johns Hopkins Medicine website as  MS. PARFITT: What exhibit?  MS. BROWN: 8.  BY MS. PARFITT: Q Exhibit 8? (Diette Exhibit No. 8 was marked for identification.)  BY MS. PARFITT: Q All right. Do you have that in front of you?  A I do. Q All right. Now, this is for the Johns Hopkins Medical School; is that correct, or	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	"Request an appointment." So this looks like some kind of place that somebody could go and find a call-in number to get an appointment for for a doctor.  Q Okay.  A So I think it's I don't know. I could add all kinds of things, but I don't I don't know what the format is for this. Like I don't know if there is a word limit.  Q Sorry.  A I don't know I don't know what the purpose of this is.  Q All right. The second line says: "Research interests," and it states: "Environmental impacts on lung disease, epidemiology of airway disease and chronic obstructive pulmonary disease, asthma."  Did I read that correctly?  A You did.  Q Does that accurately reflect your current research interests?
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Page 95  Q Okay. And then post-medical school, you received a MHS in public health; is that correct?  A Well, it was in epidemiology. Q Okay. A I only just say that because there is a degree in public health, and that's not what mine was called. Q Okay. Let me show you what we'll have marked as the Johns Hopkins Medicine website as  MS. PARFITT: What exhibit? MS. BROWN: 8. BY MS. PARFITT: Q Exhibit 8? (Diette Exhibit No. 8 was marked for identification.) BY MS. PARFITT: Q All right. Do you have that in front of you? A I do. Q All right. Now, this is for the Johns Hopkins Medical School; is that correct, or medical center?	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	"Request an appointment." So this looks like some kind of place that somebody could go and find a call-in number to get an appointment for for a doctor.  Q Okay.  A So I think it's I don't know. I could add all kinds of things, but I don't I don't know what the format is for this. Like I don't know if there is a word limit.  Q Sorry.  A I don't know I don't know what the purpose of this is.  Q All right. The second line says: "Research interests," and it states: "Environmental impacts on lung disease, epidemiology of airway disease and chronic obstructive pulmonary disease, asthma."  Did I read that correctly?  A You did.  Q Does that accurately reflect your current research interests?  MS. BROWN: Objection. Form.

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	Page 98		Page 100
1	this on this page.	1	it to see if it's accurate or not, but there's
2	BY MS. PARFITT:	2	there's certainly more about me than just those
3	Q Okay. Well, I will represent to you	3	couple of
4	that if one chose to go on the Johns Hopkins	4	Q Okay. Well, you know, that's a good
5	Medicine website, this is how they hold you out to	5	point, and I missed that. So thank you for
6	the to the world, so to speak.	6	bringing that to our attention.
7	MS. BROWN: Objection to the speech. Is	7	Let's look at that sec second page
8	there a question?	8	of the website for Johns Hopkins Medical Center.
9	THE WITNESS: So	9	MR. TISI: Counsel, that is Exhibit 8.
10	MS. PARFITT: Counsel	10	MS. PARFITT: And it is Exhibit 8.
11	MS. BROWN: There's no question.	11	Thank you.
12	MS. PARFITT: please.	12	Okay. Let's put that up there.
13	MS. BROWN: Is there a question?	13	BY MS. PARFITT:
14	MS. PARFITT: Yes.	14	Q And there's a category that says
15	MS. BROWN: What is it?	15	"Background"; is that correct?
16	BY MS. PARFITT:	16	A It is.
		17	
17	Q Is this how is this information	18	Q All right. Now, it states: "Dr. Gregory Diette is a professor of medicine at
18	correct, Dr. Diette?	1	
19	A Oh, the information is correct.	19	the Johns Hopkins University School of Medicine.
20	Q Okay.	20	He holds a joint appointment in the Department of
21	A It's very incomplete.	21	Epidemiology in the Johns Hopkins Bloomberg School
22	Q Okay. Let me show you now what we'll	22	of Public Health." Hashtag, "His areas of
23	have marked as Exhibit 9.	23	clinical expertise include asthma and obstructive
24	(Diette Exhibit No. 9 was marked	24	lung disease."
25	for identification.)	25	Did I read that correctly?
	Page 99		Page 101
1	THE WITNESS: Can I just just	1	A You did.
2	clarify?	2	Q Okay. Is that correct?
3	BY MS. PARFITT:	3	A That that it includes those two
4	Q There's no question pending right now.	4	diseases?
5	A I want to clarify my last	5	Q Yes.
6	MS. BROWN: But if you want	6	A It does include that.
7	BY MS. PARFITT:	7	Q Okay. And the third paragraph reads:
8	Q Your counsel will have a chance to to	8	"His research interests include environmental
9	talk with you.	9	impacts on lung disease, epidemiology of airway
10	MS. BROWN: Whoa, Counsel. Are you	10	disease, and chronic obstructive pulmonary
11	going to take the position on the record that the	11	disease."
12	witness can't clarify any	12	Did I read that correctly?
13	MS. PARFITT: No, I'm not doing that	13	A You did.
14	all.	14	Q All right. And does that reflect some
15	MS. BROWN: Well, that was his request,	15	of your research interests?
16	and he wanted to	16	A It does.
17	BY MS. PARFITT:	17	Q All right. Now, let's move over and
18	Q What do you need to do, Doctor? I'm	18	thank you for correcting me on that.
19	sorry.	19	Now, I will represent to you that
20	A Oh, well, I just because we were	20	Exhibit 9 is from the website from the Bloomberg
21	talking about this front page, and I didn't	21	School of Public Health.
22	realize there were other pages here. This still	22	Do you have that in front of you?
23	isn't complete, but there's a whole lot here more	23	A I do.
24	about me than just what was on that front page. I	24	Q All right. Now, if one was to go onto
25	just wanted to point to all that. I haven't read	25	the website for the Bloomberg School of Public
		1	

	Page 102		Page 104
1	Health, this is the type of information they would	1	patients who come to you are experiencing?
2	receive, Dr. Diette.	2	MS. BROWN: Objection to the form.
3	Look down at the "Overview." Do you see	3	THE WITNESS: And I'll do my best, and
4	that?	4	then if it's not what you're looking for, please
5	A I do.	5	just ask me to clarify.
6	Q Okay. It says	6	I I see probably, you know, almost
7	MS. PARFITT: Let's get that up on the	7	every single kind of medical problem there is
8	ELMO.	8	because I I attend in so many different
9	BY MS. PARFITT:	9	locations within the Hopkins system. So meaning
10	Q All right. Do you see under "Overview,"	10	that I do work in the intensive care unit where
11	it says: "My research focuses on identifying	11	it's every kind of medical problem you could
12	factors that cause or provoke asthma. We have	12	imagine, it just happens to be the sickest of the
13	been interested especially in air pollutants,"	13	sick. So it could be any any organ system, or
14	parens, "particulate matter, NO2, secondhand	14	not even an organ system, but all sorts of
15	smoke," close parens, "and allergens," parens,	15	illnesses.
16	"including mouse," close parens, "that are	16	In the pulmonary clinic, I see I
17	especially problematic in inner city homes. We	17	certainly see people with asthma and COPD, but I
18	are studying the effects of these pollutants and	18	see pretty much any kind of pulmonary disease and
19	allergens on inflammation and oxidative stress.	19	get referrals for things that aren't pulmonary
20	More recently, we have begun examining how dietary	20	diseases. They they may be somebody who's got
21	patterns, especially a Western diet style a	21	a a symptom that turns out not to be a
22	Western-style diet, may increase susceptibility to	22	pulmonary disease.
23	inhalable pollutants and allergens."	23	In the oncology center, when I attend
24	Did I read that correctly?	24	there, I see every kind of cancer patient that at
25	A You did.	25	least that Hopkins sees.
23	A Tou did.	23	icust that Hopkins sees.
	Page 103		Page 105
1		1	
1 2	Q Okay. And then again, under your "Research Interests, it states: "Epidemiology of	1 2	Page 105  And then I'm also lucky enough to attend on the general internal medicine service, and so
	Q Okay. And then again, under your		And then I'm also lucky enough to attend
2	Q Okay. And then again, under your "Research Interests, it states: "Epidemiology of	2	And then I'm also lucky enough to attend on the general internal medicine service, and so
2	Q Okay. And then again, under your "Research Interests, it states: "Epidemiology of lung diseases, asthma, COPD"	2 3	And then I'm also lucky enough to attend on the general internal medicine service, and so there it's really everything, it's all comers.
2 3 4	Q Okay. And then again, under your "Research Interests, it states: "Epidemiology of lung diseases, asthma, COPD" And what's COPD?	2 3 4	And then I'm also lucky enough to attend on the general internal medicine service, and so there it's really everything, it's all comers. And so it ranges from basically head-to-toe kind
2 3 4 5	Q Okay. And then again, under your "Research Interests, it states: "Epidemiology of lung diseases, asthma, COPD" And what's COPD?  A Chronic obstructive pulmonary disease.	2 3 4 5	And then I'm also lucky enough to attend on the general internal medicine service, and so there it's really everything, it's all comers.  And so it ranges from basically head-to-toe kind of medicine.  BY MS. PARFITT:
2 3 4 5 6	Q Okay. And then again, under your "Research Interests, it states: "Epidemiology of lung diseases, asthma, COPD" And what's COPD?  A Chronic obstructive pulmonary disease. Q "outcomes, environmental," and then	2 3 4 5 6	And then I'm also lucky enough to attend on the general internal medicine service, and so there it's really everything, it's all comers. And so it ranges from basically head-to-toe kind of medicine.
2 3 4 5 6 7	Q Okay. And then again, under your "Research Interests, it states: "Epidemiology of lung diseases, asthma, COPD" And what's COPD?  A Chronic obstructive pulmonary disease. Q "outcomes, environmental," and then it says, "Particulate matter, allergens and health	2 3 4 5 6 7	And then I'm also lucky enough to attend on the general internal medicine service, and so there it's really everything, it's all comers.  And so it ranges from basically head-to-toe kind of medicine.  BY MS. PARFITT:  Q Okay. Now, if I arrived at for in
2 3 4 5 6 7 8	Q Okay. And then again, under your "Research Interests, it states: "Epidemiology of lung diseases, asthma, COPD" And what's COPD?  A Chronic obstructive pulmonary disease. Q "outcomes, environmental," and then it says, "Particulate matter, allergens and health disparities."	2 3 4 5 6 7 8	And then I'm also lucky enough to attend on the general internal medicine service, and so there it's really everything, it's all comers.  And so it ranges from basically head-to-toe kind of medicine.  BY MS. PARFITT:  Q Okay. Now, if I arrived at for in I guess you said the intensive care clinic, and I
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	Page 106		Page 108
1	not you were in our our unit or not.	1	certainly interested in pollutants.
2	Q So if I came in with a gynecological	2	Q Okay. And more recently, you've
3	problem, they might call you you, who are a	3	expressed a research interest in dietary patterns
4	pulmonologist, they might call you in to consult	4	particularly, and especially a Western diet and
5	with me?	5	how that might increase susceptibility to
6	MS. BROWN: Objection to the form of the	6	inhalable pollutants; is that correct?
7	question and the tone.	7	A True.
8	THE WITNESS: Well, I am picking up the	8	MS. BROWN: Form.
9	tone, which I which I think I mean, I know	9	BY MS. PARFITT:
10	you're trying to make a point here. And the	10	Q Are you have you published recently
11	question as you asked it is the answer is, of	11	on that?
12	course. But I think what you're trying to get at	12	A I'm sure there's stuff that's come out.
13	is would they have asked me to come deal with	13	Q Well, I only have your CV from 2017, so
14	their pregnancy, for example, and I wouldn't be	14	I'll represent that I'm not seeing something on
15	the person dealing with their pregnancy. I would	15	that CV.
16	be dealing with something else.	16	Is there something you've done recently?
17	BY MS. PARFITT:	17	A Yeah, it's a couple of years ago.
18	Q Okay. All right. Is it fair to say	18	Q Okay.
19	that your practice primarily deals with	19	A I mean the best way to find stuff would
20	individuals who have pulmonary and lung disease	20	be on PubMed.
21	conditions?	21	Q All right. You've been retained to
22	MS. BROWN: Objection.	22	serve as an expert for Johnson & Johnson, correct?
23	THE WITNESS: I think if you dial back	23	MS. BROWN: Form.
24	and listen to what I said for those other answers,	24	THE WITNESS: That's correct.
25	you would be pretty clear that it isn't just that.	25	BY MS. PARFITT:
	2 105		7 100
_	Page 107		Page 109
1	BY MS. PARFITT:	1	Q Okay. Do you know what the do you
2	Q Okay. Well, I would include asthma in	2	have an understanding of what the allegations are
3	that as well.	3	against Johnson & Johnson?
4	MS. BROWN: Same objection.	4	MS. BROWN: Objection to the form.
5	THE WITNESS: Well, include it, but I	5	THE WITNESS: Which which ones?
6	mean but, you know, when I'm on the general	6	BY MS. PARFITT:
7	internal medicine service, I'm not seeing mostly	7	Q Do you know why you're Johnson &
8	asthma. I might be seeing somebody with diabetes	8	Lohngon ig hoing guad'?
			Johnson is being sued?
9	or a heart attack or pelvic inflammatory disease,	9	MS. BROWN: Objection.
10	or a heart attack or pelvic inflammatory disease, you know, to name a GYN problem. I mean it's the	9 10	MS. BROWN: Objection. Counsel, are you asking a legal
10 11	or a heart attack or pelvic inflammatory disease, you know, to name a GYN problem. I mean it's the whole gamut from head to toe.	9 10 11	MS. BROWN: Objection. Counsel, are you asking a legal question?
10 11 12	or a heart attack or pelvic inflammatory disease, you know, to name a GYN problem. I mean it's the whole gamut from head to toe. BY MS. PARFITT:	9 10 11 12	MS. BROWN: Objection. Counsel, are you asking a legal question? MS. PARFITT: No.
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	Page 110		Page 112
1	MS. BROWN: Objection.	1	through it quickly and just get a sense of what
2	THE WITNESS: I don't have any separate	2	the case is about.
3	understanding.	3	BY MS. PARFITT:
4	BY MS. PARFITT:	4	Q And then what do you do with it?
5	Q Okay. Do you know who Imerys are is	5	MS. BROWN: Form.
6	or are?	6	BY MS. PARFITT:
7	A I'm aware that it's a supply company of	7	Q Do you keep it?
8	some sort, but I don't know much more about them.	8	A Oh, not forever. I mean if the case is
9	Q All right. And do you have an	9	over, then I destroy it with all the other
10	understanding of the allegations against the	10	materials.
11	Personal Care Products Corporation	11	Q Well, this case is far from over.
12	MS. BROWN: Objection.	12	Have do you still have
13	BY MS. PARFITT:	13	MS. BROWN: Counsel, just ask the
14	Q otherwise known as the PCPC?	14	question.
15	MS. BROWN: Objection. Calls for	15	BY MS. PARFITT:
16	speculation.	16	Q a copy of the complaint?
17	THE WITNESS: I don't	17	MS. MILLER: You asked about a state
18	MR. LOCKE: Objection.	18	court case.
19	BY MS. PARFITT:	19	MS. PARFITT: No. I said was there
20	Q You don't.	20	hey again, hey, ladies, I'm sorry, I think the
21	A I don't know who that is.	21	two of you are going to have to agree who is going
22	Q All right. Have you ever seen a	22	to com who's going to complain who's going
23	complaint in this case?	23	to object. One of you can object.
24	MS. BROWN: Objection.	24	MS. BROWN: Well, if you're going to
25	BY MS. PARFITT:	25	complain, I'm going to object.
	D 111		D 112
1	Page 111	1	Page 113
1	Q And when I say "this case," I'm talking	1	MS. PARFITT: Okay.
2	about this case of talcum powder products and	2	MS. BROWN: Please just ask the
3	ovarian cancer, be it in an MDL context or a state	3 4	question. No speeches.
4	context.		MS. PARFITT: Then, please, and I
5	MS. BROWN: Same objection.	5 6	listen, I think that we're getting at a crossroads
6	MS. MILLER: With any complaint, any	7	here. One person gets to object. And let me
7	talcum		remind you what the CMO says, because I know you
8	MS. PARFITT: Any yeah, has he ever	8	know that
9	seen a complaint in any talcum powder product and ovarian cancer case.	9	MS. BROWN: Counsel
10		10	MS. PARFITT: And I'm not admonishing.
11	MS. BROWN: Objection to the form.	11	Let me finish, Counsel
12	THE WITNESS: I'm sure I must have.	12	MS. BROWN: Don't yell at me.
13	BY MS. PARFITT:	13	MS. PARFITT: and then you can speak.
14	Q You're sure you must have.	14 15	MS. BROWN: You're raising your tone at
15 16	Is it in the materials that you have		MC DADEITT: Well the compre will
16 17	reviewed for purposes of your your deposition	16 17	MS. PARFITT: Well, the camera will
17	today or for purposes of the report you prepared?		oh, please, don't be so condescending.
18	A No.	18	MS. BROWN: Sure, it's going to reflect
19	MS. BROWN: Objection.	19	that you're raising your tone.
20	BY MS. PARFITT:	20	MS. PARFITT: I hope I hope that the
21	Q Okay. If you have seen it, what have	21	Judge sees this because we're probably
22	you done with it?	22	MS. BROWN: We are well aware of the
0.3	MS. BROWN: Objection. Vague.	23	CMO.
23			MC DADEITT. ' 1 1
23 24 25	THE WITNESS: Well, the same thing I do with any complaint, which is just to try to read	24 25	MS. PARFITT: going to have to call him soon.

29 (Pages 110 to 113)

	Page 114		Page 116
1	MS. BROWN: We are complying with it.	1	THE WITNESS: Can you say it again?
2	We're happy to call the Judge.	2	BY MS. PARFITT:
3	MS. PARFITT: So the CMO says that you	3	Q Sure.
4	get to say, "Objection. Form." That's what you	4	A Yeah.
5	get to say.	5	Q Have you ever been provided
6	You have a wonderful opportunity at the	6	gynecological care or treatment for a woman who
7	end of this deposition to ask him as many	7	has been diagnosed with ovarian cancer?
8	questions as you like, but for right now, my time,	8	A So there's just a couple of things
9	my deposition. It's, "Objection. Form." And I	9	there, and I think maybe I heard it wrong.
10	really would appreciate that courtesy. I will	10	Did you say been provided care?
11	give it to you, but I would appreciate getting it	11	Q Have you ever provided
12	back. So	12	A Provided. Okay. I'm sorry. I thought
13	MS. BROWN: And to be clear	13	you said "been provided."
14	MS. PARFITT: No, Counsel, no more	14	Q No, no, no, no.
15	speeches. No more speeches.	15	MS. MILLER: You did say that.
16	MS. BROWN: You just made a speech, and	16	THE WITNESS: I thought it sounded like
17	I'm going to respond	17	did I get care. I was like
18	MS. PARFITT: No more speeches, Counsel.	18	MS. MILLER: You did
19	My deposition.	19	BY MS. PARFITT:
20	MS. BROWN: No, Counsel.	20	Q No, I I don't think you did.
21	MS. PARFITT: Not your deposition.	21	A Yeah, right.
22	BY MS. PARFITT:	22	Q I know, that would have been a very
23	Q Next question I have	23	awkward question, wouldn't it?
24	MS. PARFITT: No more questions,	24	Have you ever provided gynecological
25	Counsel. You want me to depose you?	25	care or treatment for a woman who has been
	Page 115		Page 117
1	MS. BROWN: Counsel, no. You are	1	diagnosed with ovarian cancer?
2	raising your tone.	2	A Sure. And I think it goes back to some
3	MS. PARFITT: Counsel	3	of the things I said before where I see people in
4	MS. BROWN: You are yelling at me.	4	the hospital who have ovarian cancer, and through
5	MS. PARFITT: you know what, I was	5	my training, you know, for medical school and
6	told a little bit earlier nobody could hear me.	6	residency, that was part of our training also,
7	So I have lifted my voice, and now I'm using my	7	which was to rotate on services where people
8	stage voice. So now everyone can hear me, and now	8	had every every imaginable illness.
9	I'm speaking too loud to you.	9	Q Okay. Well, your residency was how long
10	So I'm going to try you know, you	10	ago?
			-8-1
11	can't have it both ways. One speaker, one	11	MS. BROWN: Objection.
11 12	objectioner. Next question.	11 12	
			MS. BROWN: Objection.
12	objectioner. Next question.	12	MS. BROWN: Objection. THE WITNESS: My residency was 1990 to
12 13	objectioner. Next question.  MS. BROWN: The record will reflect that	12 13	MS. BROWN: Objection. THE WITNESS: My residency was 1990 to 1993. BY MS. PARFITT: Q Okay. So I'm not talking about what you
12 13 14	objectioner. Next question.  MS. BROWN: The record will reflect that you are making incessant speeches. Please	12 13 14	MS. BROWN: Objection. THE WITNESS: My residency was 1990 to 1993. BY MS. PARFITT:
12 13 14 15	objectioner. Next question.  MS. BROWN: The record will reflect that you are making incessant speeches. Please BY MS. PARFITT:	12 13 14 15	MS. BROWN: Objection. THE WITNESS: My residency was 1990 to 1993. BY MS. PARFITT: Q Okay. So I'm not talking about what you
12 13 14 15 16	objectioner. Next question.  MS. BROWN: The record will reflect that you are making incessant speeches. Please BY MS. PARFITT:  Q Are you an oncologist, Dr. Diette?	12 13 14 15 16	MS. BROWN: Objection. THE WITNESS: My residency was 1990 to 1993. BY MS. PARFITT: Q Okay. So I'm not talking about what you did in 1993, back in that period of time.
12 13 14 15 16 17	objectioner. Next question.  MS. BROWN: The record will reflect that you are making incessant speeches. Please BY MS. PARFITT:  Q Are you an oncologist, Dr. Diette?  A I am not an oncologist.	12 13 14 15 16 17	MS. BROWN: Objection. THE WITNESS: My residency was 1990 to 1993. BY MS. PARFITT: Q Okay. So I'm not talking about what you did in 1993, back in that period of time. What I'm talking about is whether or not
12 13 14 15 16 17 18	objectioner. Next question.  MS. BROWN: The record will reflect that you are making incessant speeches. Please BY MS. PARFITT:  Q Are you an oncologist, Dr. Diette?  A I am not an oncologist.  Q Are you a radiation oncologist?	12 13 14 15 16 17 18	MS. BROWN: Objection. THE WITNESS: My residency was 1990 to 1993. BY MS. PARFITT: Q Okay. So I'm not talking about what you did in 1993, back in that period of time. What I'm talking about is whether or not you have actually provided gynecological care to a
12 13 14 15 16 17 18	objectioner. Next question.  MS. BROWN: The record will reflect that you are making incessant speeches. Please BY MS. PARFITT:  Q Are you an oncologist, Dr. Diette?  A I am not an oncologist.  Q Are you a radiation oncologist?  A No.	12 13 14 15 16 17 18 19	MS. BROWN: Objection. THE WITNESS: My residency was 1990 to 1993. BY MS. PARFITT: Q Okay. So I'm not talking about what you did in 1993, back in that period of time. What I'm talking about is whether or not you have actually provided gynecological care to a woman who presented to you with ovarian cancer?
12 13 14 15 16 17 18 19 20	objectioner. Next question.  MS. BROWN: The record will reflect that you are making incessant speeches. Please BY MS. PARFITT:  Q Are you an oncologist, Dr. Diette?  A I am not an oncologist.  Q Are you a radiation oncologist?  A No.  Q Are you a gynecologist?	12 13 14 15 16 17 18 19 20	MS. BROWN: Objection. THE WITNESS: My residency was 1990 to 1993. BY MS. PARFITT: Q Okay. So I'm not talking about what you did in 1993, back in that period of time. What I'm talking about is whether or not you have actually provided gynecological care to a woman who presented to you with ovarian cancer? MS. BROWN: Objection to the form.
12 13 14 15 16 17 18 19 20 21	objectioner. Next question.  MS. BROWN: The record will reflect that you are making incessant speeches. Please BY MS. PARFITT:  Q Are you an oncologist, Dr. Diette?  A I am not an oncologist.  Q Are you a radiation oncologist?  A No.  Q Are you a gynecologist?  A No.	12 13 14 15 16 17 18 19 20 21	MS. BROWN: Objection. THE WITNESS: My residency was 1990 to 1993. BY MS. PARFITT: Q Okay. So I'm not talking about what you did in 1993, back in that period of time. What I'm talking about is whether or not you have actually provided gynecological care to a woman who presented to you with ovarian cancer? MS. BROWN: Objection to the form. Asked and answered five times.
12 13 14 15 16 17 18 19 20 21	objectioner. Next question.  MS. BROWN: The record will reflect that you are making incessant speeches. Please BY MS. PARFITT:  Q Are you an oncologist, Dr. Diette?  A I am not an oncologist.  Q Are you a radiation oncologist?  A No.  Q Are you a gynecologist?  A No.  Q Okay. Have you ever provided	12 13 14 15 16 17 18 19 20 21 22	MS. BROWN: Objection. THE WITNESS: My residency was 1990 to 1993. BY MS. PARFITT: Q Okay. So I'm not talking about what you did in 1993, back in that period of time. What I'm talking about is whether or not you have actually provided gynecological care to a woman who presented to you with ovarian cancer? MS. BROWN: Objection to the form. Asked and answered five times. You can answer, Dr. Diette.

MS. BROWN: Same objection.  THE WITNESS: I think I know your question, but could you be specific like BY MS. PARFITT:  Q Sure.  A like just an example, and then I'll know that we're talking about the same thing.  Q Okay. Have you ever provided primary care, gynecological care or treatment for a woman who has been diagnosed with ovarian cancer?  A So  MR. LOCKE: Objection.	1 2 3 4 5 6 7 8 9	hygienist?  A No.  Q Okay. Are you what's referred to as a mineralogist or a mineral scientist specialist?  A Neither one.  Q Are you a geologist?  A No.  Q Okay. Is it fair to say that you do not
THE WITNESS: I think I know your question, but could you be specific like BY MS. PARFITT: Q Sure. A like just an example, and then I'll know that we're talking about the same thing. Q Okay. Have you ever provided primary care, gynecological care or treatment for a woman who has been diagnosed with ovarian cancer? A So	3 4 5 6 7 8	<ul> <li>A No.</li> <li>Q Okay. Are you what's referred to as a mineralogist or a mineral scientist specialist?</li> <li>A Neither one.</li> <li>Q Are you a geologist?</li> <li>A No.</li> <li>Q Okay. Is it fair to say that you do not</li> </ul>
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Q Sure. A like just an example, and then I'll know that we're talking about the same thing. Q Okay. Have you ever provided primary care, gynecological care or treatment for a woman who has been diagnosed with ovarian cancer? A So	5 6 7 8 9	mineralogist or a mineral scientist specialist?  A Neither one. Q Are you a geologist? A No. Q Okay. Is it fair to say that you do not
A like just an example, and then I'll know that we're talking about the same thing.  Q Okay. Have you ever provided primary care, gynecological care or treatment for a woman who has been diagnosed with ovarian cancer?  A So	6 7 8 9	<ul><li>Q Are you a geologist?</li><li>A No.</li><li>Q Okay. Is it fair to say that you do not</li></ul>
know that we're talking about the same thing.  Q Okay. Have you ever provided primary care, gynecological care or treatment for a woman who has been diagnosed with ovarian cancer?  A So	7 8 9	A No. Q Okay. Is it fair to say that you do not
know that we're talking about the same thing.  Q Okay. Have you ever provided primary care, gynecological care or treatment for a woman who has been diagnosed with ovarian cancer?  A So	8 9	A No. Q Okay. Is it fair to say that you do not
Q Okay. Have you ever provided primary care, gynecological care or treatment for a woman who has been diagnosed with ovarian cancer?  A So	9	
care, gynecological care or treatment for a woman who has been diagnosed with ovarian cancer?  A So		
who has been diagnosed with ovarian cancer?  A So	10	hold yourself out in the scientific and medical
A So	I TO	community as an expert with regard to testing
MR. LOCKE: Objection	11	standards of particulate matter, toxins or
THE ECCIE. COLUMN.	12	carcinogens?
THE WITNESS: I'm not trying to	13	A I think that sounds right.
criticize the question, but primary care sounds	14	Q And that would include testing of
like something that a like a family	15	minerals or, excuse me, that would include
	16	testing of asbestos?
•	17	MS. BROWN: Objection to the form.
BY MS. PARFITT:		THE WITNESS: Correct.
		BY MS. PARFITT:
The state of the s		Q And that would include testing of talcum
		powder products?
		A That I I don't do that, is that
		right?
		Q Right.
		A Yeah, that's correct.
Page 119		Page 121
THE WITNESS: Different department,	1	Q All right. Let's talk a little bit
assuming it's literally for the care of the	2	about your publications and your research.
ovarian cancer.	3	Let me direct your attention to I
BY MS. PARFITT:	4	believe this is Appendix C of your CV, which I
Q Okay. Fair. Thank you.	5	believe is Exhibit 7.
Have you ever researched the life	6	Do you have that in front of you?
expectancy of a woman who has ovarian cancer?	7	A I do.
A No.	8	Q Okay. I understand, now that I have a
MS. BROWN: Objection to the form.	9	CV that's dated June of 2017, and the CV I have,
BY MS. PARFITT:	10	it says that you've published approximately 167
Q Are you a pathologist?	11	publications in peer-reviewed literature.
A I am not.	12	Is that correct or incorrect?
Q All right. And are you a radiologist?	13	A It was probably true as of June 2017.
A I am not.	14	Q All right. So sitting here today in
Q Okay. Are you a mineralogist?	15	April of 2019, approximately how many publications
A No.	16	in peer-reviewed journals have you published?
Q Are you a toxicologist?	17	A I think if you look on PubMed, you will
A No.	18	see more than 200.
	19	Q Okay. Is it fair to say that you've
O Are you a pharmacologist?		
Q Are you a pharmacologist? A No.	20	
A No.	20 21	published no papers or studies in the peer-
A No. Q Okay. Are you a regulatory expert?	21	published no papers or studies in the peer- reviewed literature about asbestos or asbestos-
<ul><li>A No.</li><li>Q Okay. Are you a regulatory expert?</li><li>A I don't know what that means, but I</li></ul>	21 22	published no papers or studies in the peer- reviewed literature about asbestos or asbestos- related diseases?
A No. Q Okay. Are you a regulatory expert?	21	published no papers or studies in the peer- reviewed literature about asbestos or asbestos-
	practitioner or an internist would do. I think you mean something else, so BY MS. PARFITT:  Q I do. Okay. What I'm talking about is if I called up Johns Hopkins and said, I have been diagnosed with ovarian cancer, I need to see a physician, would I be referred to the pulmonology department, your department, or would I be referred to a different department?  MS. BROWN: Objection to the form.  Page 119  THE WITNESS: Different department, assuming it's literally for the care of the ovarian cancer. BY MS. PARFITT: Q Okay. Fair. Thank you. Have you ever researched the life expectancy of a woman who has ovarian cancer? A No. MS. BROWN: Objection to the form. BY MS. PARFITT: Q Are you a pathologist? A I am not. Q All right. And are you a radiologist? A I am not. Q Okay. Are you a mineralogist? A No.	practitioner or an internist would do. I think you mean something else, so BY MS. PARFITT: Q I do. Okay. What I'm talking about is if I called up Johns Hopkins and said, I have been diagnosed with ovarian cancer, I need to see a physician, would I be referred to the pulmonology department, your department, or would I be referred to a different department?  MS. BROWN: Objection to the form.  Page 119  THE WITNESS: Different department, assuming it's literally for the care of the ovarian cancer.  BY MS. PARFITT: Q Okay. Fair. Thank you. Have you ever researched the life expectancy of a woman who has ovarian cancer? A No. MS. BROWN: Objection to the form.  BY MS. PARFITT: Q Are you a pathologist? A I am not. Q All right. And are you a radiologist? A I am not. Q Okay. Are you a mineralogist? A No.  16

31 (Pages 118 to 121)

	Page 122		Page 124
1	Q Sure.	1	THE WITNESS: So that's a different
2	A I can help you just clarify what I	2	question. So the answer to that is no.
3	what I'm trying to answer.	3	BY MS. PARFITT:
4	Q Please.	4	Q All right. Have you published any
5	A So nothing about asbestos, but if you	5	papers in the peer-reviewed literature on
6	if you consider asbestos-related diseases to	6	mesothelioma?
7	include lung cancer, for example, that there are	7	A No.
8	publications that bear on lung cancer, and there's	8	Q All right. So nowhere in the 200
9	at least one article, maybe more, on interstitial	9	publications that you have prepared would I see
10	lung diseases, and asbestosis would be an	10	the word "mesothelioma"?
11	interstitial lung disease.	11	A I can't promise that you won't see that
12	Q Okay. Can you tell me what those	12	word in some paper, but there's not a paper whose
13	articles are?	13	primary topic is about mesothelioma.
14	A Let's see. Would the how do you want	14	Q All right. Very good.
15	me to do it, like the number?	15	Having reviewed your 200 or so
16	Q If you give me the number, that would be	16	publications, is it fair to say that there are no
17	fine.	17	peer-reviewed publications regarding the subject
18	A Yeah. So number 5 has to do with lung	18	matter of ovarian cancer?
19	cancer.	19	A That's correct.
20	Q Now, does that have to do with lung	20	Q Is it fair to say that none of your
21	cancer and asbestos exposure?	21	peer-reviewed papers address a diagnosis of
22	A No, not specifically.	22	ovarian cancer?
23	Q All right. So that has that is not	23	MS. BROWN: Objection. Form. I don't
24	lung cancer and asbestos.	24	understand that.
25	All right. Is there another one?	25	THE WITNESS: Well, I think I think
	Page 123		Page 125
1	A Yeah, so if you look at number 6, this	1	the answer to the one before encompasses, you
2	is, you know, a study about evaluating lung masses	2	know, something else with the word "ovarian
3	and large lymph nodes.	3	agraphi in the quartier
4		1	cancer" in the question.
-	Q Yes.	4	BY MS. PARFITT:
5	<ul><li>Q Yes.</li><li>A So that would include, you know, lung</li></ul>		
		4	BY MS. PARFITT:  Q Okay. All right. Have you published any peer-reviewed publications that talk about the
5	A So that would include, you know, lung	4 5	BY MS. PARFITT:  Q Okay. All right. Have you published
5 6	A So that would include, you know, lung cancer in that as well.	4 5 6	BY MS. PARFITT:  Q Okay. All right. Have you published any peer-reviewed publications that talk about the
5 6 7	A So that would include, you know, lung cancer in that as well.  Q Does that include asbestos and lung cancer?  A Not specifically.	4 5 6 7	BY MS. PARFITT:  Q Okay. All right. Have you published any peer-reviewed publications that talk about the causes of ovarian cancer?
5 6 7 8	A So that would include, you know, lung cancer in that as well.  Q Does that include asbestos and lung cancer?  A Not specifically.  Q All right. Any others?	4 5 6 7 8	BY MS. PARFITT:  Q Okay. All right. Have you published any peer-reviewed publications that talk about the causes of ovarian cancer?  MS. BROWN: Objection.
5 6 7 8 9	A So that would include, you know, lung cancer in that as well.  Q Does that include asbestos and lung cancer?  A Not specifically.  Q All right. Any others?  A I would say any of the ones where you	4 5 6 7 8 9	BY MS. PARFITT:  Q Okay. All right. Have you published any peer-reviewed publications that talk about the causes of ovarian cancer?  MS. BROWN: Objection.  THE WITNESS: No.  BY MS. PARFITT:  Q Have you published any peer-reviewed
5 6 7 8 9 10	A So that would include, you know, lung cancer in that as well.  Q Does that include asbestos and lung cancer?  A Not specifically.  Q All right. Any others?  A I would say any of the ones where you see the word "bronchoscopy," it has something to	4 5 6 7 8 9	BY MS. PARFITT:  Q Okay. All right. Have you published any peer-reviewed publications that talk about the causes of ovarian cancer?  MS. BROWN: Objection.  THE WITNESS: No.  BY MS. PARFITT:
5 6 7 8 9 10	A So that would include, you know, lung cancer in that as well.  Q Does that include asbestos and lung cancer?  A Not specifically.  Q All right. Any others?  A I would say any of the ones where you	4 5 6 7 8 9 10 11	BY MS. PARFITT:  Q Okay. All right. Have you published any peer-reviewed publications that talk about the causes of ovarian cancer?  MS. BROWN: Objection.  THE WITNESS: No.  BY MS. PARFITT:  Q Have you published any peer-reviewed
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5 6 7 8 9 10 11 12	A So that would include, you know, lung cancer in that as well.  Q Does that include asbestos and lung cancer?  A Not specifically.  Q All right. Any others?  A I would say any of the ones where you see the word "bronchoscopy," it has something to do with lung cancer for the most part, though not literally lung cancer and asbestos.  So, for example, like 21, number 2,	4 5 6 7 8 9 10 11 12 13	BY MS. PARFITT:  Q Okay. All right. Have you published any peer-reviewed publications that talk about the causes of ovarian cancer?  MS. BROWN: Objection.  THE WITNESS: No.  BY MS. PARFITT:  Q Have you published any peer-reviewed papers that talk about risk factors for ovarian cancer?
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5 6 7 8 9 10 11 12 13 14	A So that would include, you know, lung cancer in that as well.  Q Does that include asbestos and lung cancer?  A Not specifically.  Q All right. Any others?  A I would say any of the ones where you see the word "bronchoscopy," it has something to do with lung cancer for the most part, though not literally lung cancer and asbestos.  So, for example, like 21, number 2,	4 5 6 7 8 9 10 11 12 13 14 15	BY MS. PARFITT:  Q Okay. All right. Have you published any peer-reviewed publications that talk about the causes of ovarian cancer?  MS. BROWN: Objection.  THE WITNESS: No.  BY MS. PARFITT:  Q Have you published any peer-reviewed papers that talk about risk factors for ovarian cancer?  MS. BROWN: Same objection.  THE WITNESS: No.
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5 6 7 8 9 10 11 12 13 14 15 16 17 18	A So that would include, you know, lung cancer in that as well.  Q Does that include asbestos and lung cancer?  A Not specifically. Q All right. Any others? A I would say any of the ones where you see the word "bronchoscopy," it has something to do with lung cancer for the most part, though not literally lung cancer and asbestos.  So, for example, like 21, number 2, number 3, you know, all sort of have some bearing on at least the you know, the care or management of people with suspected lung cancer or who actually have lung cancer.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MS. PARFITT:  Q Okay. All right. Have you published any peer-reviewed publications that talk about the causes of ovarian cancer?  MS. BROWN: Objection.  THE WITNESS: No.  BY MS. PARFITT:  Q Have you published any peer-reviewed papers that talk about risk factors for ovarian cancer?  MS. BROWN: Same objection.  THE WITNESS: No.  BY MS. PARFITT:  Q Have you published any publications in the peer-reviewed journal on risk factors for mesothelioma?
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A So that would include, you know, lung cancer in that as well.  Q Does that include asbestos and lung cancer?  A Not specifically. Q All right. Any others? A I would say any of the ones where you see the word "bronchoscopy," it has something to do with lung cancer for the most part, though not literally lung cancer and asbestos.  So, for example, like 21, number 2, number 3, you know, all sort of have some bearing on at least the you know, the care or management of people with suspected lung cancer or who actually have lung cancer.  Q Dr. Diette, my question is very specific	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	BY MS. PARFITT:  Q Okay. All right. Have you published any peer-reviewed publications that talk about the causes of ovarian cancer?  MS. BROWN: Objection.  THE WITNESS: No.  BY MS. PARFITT:  Q Have you published any peer-reviewed papers that talk about risk factors for ovarian cancer?  MS. BROWN: Same objection.  THE WITNESS: No.  BY MS. PARFITT:  Q Have you published any publications in the peer-reviewed journal on risk factors for mesothelioma?  A No.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A So that would include, you know, lung cancer in that as well.  Q Does that include asbestos and lung cancer?  A Not specifically. Q All right. Any others? A I would say any of the ones where you see the word "bronchoscopy," it has something to do with lung cancer for the most part, though not literally lung cancer and asbestos.  So, for example, like 21, number 2, number 3, you know, all sort of have some bearing on at least the you know, the care or management of people with suspected lung cancer or who actually have lung cancer.  Q Dr. Diette, my question is very specific to publications in the peer-reviewed journal that	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MS. PARFITT:  Q Okay. All right. Have you published any peer-reviewed publications that talk about the causes of ovarian cancer?  MS. BROWN: Objection.  THE WITNESS: No.  BY MS. PARFITT:  Q Have you published any peer-reviewed papers that talk about risk factors for ovarian cancer?  MS. BROWN: Same objection.  THE WITNESS: No.  BY MS. PARFITT:  Q Have you published any publications in the peer-reviewed journal on risk factors for mesothelioma?  A No.  Q What causes mesothelioma?
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A So that would include, you know, lung cancer in that as well.  Q Does that include asbestos and lung cancer?  A Not specifically. Q All right. Any others? A I would say any of the ones where you see the word "bronchoscopy," it has something to do with lung cancer for the most part, though not literally lung cancer and asbestos.  So, for example, like 21, number 2, number 3, you know, all sort of have some bearing on at least the you know, the care or management of people with suspected lung cancer or who actually have lung cancer.  Q Dr. Diette, my question is very specific to publications in the peer-reviewed journal that deal with the topic of asbestos or asbestos-	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MS. PARFITT:  Q Okay. All right. Have you published any peer-reviewed publications that talk about the causes of ovarian cancer?  MS. BROWN: Objection.  THE WITNESS: No.  BY MS. PARFITT:  Q Have you published any peer-reviewed papers that talk about risk factors for ovarian cancer?  MS. BROWN: Same objection.  THE WITNESS: No.  BY MS. PARFITT:  Q Have you published any publications in the peer-reviewed journal on risk factors for mesothelioma?  A No.  Q What causes mesothelioma?  A a few things. You know, asbestos in

	Page 126		Page 128
1	own spontaneously. And, you know, there's	1	A Right, are there no.
2	thoughts of, at least in the peritoneum, about	2	Q Okay. I noted in your CV or in some of
3	certain kinds of chronic inflammation that may	3	the readings that you are currently involved in
4	lead to that as well.	4	some clinical trials.
5	Q Okay. Can asbestos cause lung cancer?	5	Did I did I get that correct?
6	A Yes. In a sufficient dose.	6	A I have been involved in trials.
7	Q Okay. Is it fair to say that you have	7	Q Something recent?
8	not published in the peer-reviewed literature any	8	A Oh, all the time.
9	studies on talcum powder products as a causative	9	Q Okay. Are you currently involved in any
10	factor for ovarian cancer?	10	clinical trial
11	A That is correct.	11	A Yeah.
12	Q Is it fair to say that you have not	12	Q trials?
13	published in the peer-reviewed journal any studies	13	Okay. Do any of them deal with the
14	with regard to talcum powder products as a risk	14	subject of asbestos?
15	factor for ovarian cancer?	15	A No.
16	A That's correct.	16	Q Do any of your trials or research deal
17	Q Is it fair to say to say that there are	17	with the subject of talcum powder products?
18	no publications in your peer-reviewed literature	18	A No.
19	on the subject of talcum of talc as a source of	19	Q All right. Do you currently have
20	asbestos fibers?	20	ongoing any research work in the area of asbestos?
21	MS. BROWN: Objection. Counsel, I think	21	MS. BROWN: Objection to the form.
22	you just misspoke. Do you mean on his CV?	22	THE WITNESS: No.
23	MS. PARFITT: I'm sorry? I did.	23	BY MS. PARFITT:
24	BY MS. PARFITT:	24	Q Do you currently have ongoing in any of
25	Q Is it fair to say	25	your research work on the topic of mesothelioma?
	Page 127		Page 129
1	MS. PARFITT: Thank you.	1	A No.
2	BY MS. PARFITT:	2	Q Do you currently have any research work
3	Q Is it fair to say that there are no	3	ongoing on the topic of talcum powder products?
4	peer-reviewed publications in your CV that discuss	4	A No.
5	the subject as of talc as a source of asbestos	5	Q Do you currently have any research in
6	fibers?	6	the works with regard to work on work on
7	A Correct.	7	ovarian cancer?
8	Q Is it fair to say there are no	8	A No.
9	publications in a peer-reviewed journal contained	9	MS. BROWN: Objection to the form.
	in your curriculum vitae regarding the association	10	BY MS. PARFITT:
10			
10 11	or relationship between talcum powder products and	11	Q Okay. Would it be fair to say that the
	or relationship between talcum powder products and ovarian cancer?	11 12	only report that you have prepared on the topic of
11			
11 12	ovarian cancer?	12	only report that you have prepared on the topic of
11 12 13	ovarian cancer?  MS. BROWN: Objection to the form of the	12 13	only report that you have prepared on the topic of talcum powder products and ovarian cancer would be
11 12 13 14	ovarian cancer?  MS. BROWN: Objection to the form of the question.	12 13 14	only report that you have prepared on the topic of talcum powder products and ovarian cancer would be your litigation report MS. BROWN: Object BY MS. PARFITT:
11 12 13 14 15	ovarian cancer?  MS. BROWN: Objection to the form of the question.  THE WITNESS: Correct.	12 13 14 15	only report that you have prepared on the topic of talcum powder products and ovarian cancer would be your litigation report MS. BROWN: Object
11 12 13 14 15 16	ovarian cancer?  MS. BROWN: Objection to the form of the question.  THE WITNESS: Correct. BY MS. PARFITT:	12 13 14 15 16	only report that you have prepared on the topic of talcum powder products and ovarian cancer would be your litigation report MS. BROWN: Object BY MS. PARFITT:
11 12 13 14 15 16 17	ovarian cancer?  MS. BROWN: Objection to the form of the question.  THE WITNESS: Correct.  BY MS. PARFITT:  Q Are there any publications in	12 13 14 15 16 17	only report that you have prepared on the topic of talcum powder products and ovarian cancer would be your litigation report MS. BROWN: Object BY MS. PARFITT: Q in the multidistrict litigation?
11 12 13 14 15 16 17	ovarian cancer?  MS. BROWN: Objection to the form of the question.  THE WITNESS: Correct.  BY MS. PARFITT:  Q Are there any publications in peer-reviewed publications on your curriculum	12 13 14 15 16 17 18	only report that you have prepared on the topic of talcum powder products and ovarian cancer would be your litigation report MS. BROWN: Object BY MS. PARFITT: Q in the multidistrict litigation? MS. BROWN: Objection to the form,
11 12 13 14 15 16 17 18	ovarian cancer?  MS. BROWN: Objection to the form of the question.  THE WITNESS: Correct.  BY MS. PARFITT:  Q Are there any publications in peer-reviewed publications on your curriculum vitae regarding the association or relationship	12 13 14 15 16 17 18 19	only report that you have prepared on the topic of talcum powder products and ovarian cancer would be your litigation report MS. BROWN: Object BY MS. PARFITT: Q in the multidistrict litigation? MS. BROWN: Objection to the form, misstates his testimony.
11 12 13 14 15 16 17 18 19 20	ovarian cancer?  MS. BROWN: Objection to the form of the question.  THE WITNESS: Correct.  BY MS. PARFITT:  Q Are there any publications in peer-reviewed publications on your curriculum vitae regarding the association or relationship between asbestos and ovarian cancer?	12 13 14 15 16 17 18 19 20	only report that you have prepared on the topic of talcum powder products and ovarian cancer would be your litigation report MS. BROWN: Object BY MS. PARFITT: Q in the multidistrict litigation? MS. BROWN: Objection to the form, misstates his testimony. THE WITNESS: I doubt it's the only
11 12 13 14 15 16 17 18 19 20 21	ovarian cancer?  MS. BROWN: Objection to the form of the question.  THE WITNESS: Correct.  BY MS. PARFITT:  Q Are there any publications in peer-reviewed publications on your curriculum vitae regarding the association or relationship between asbestos and ovarian cancer?  MS. BROWN: Objection. Asked and	12 13 14 15 16 17 18 19 20 21	only report that you have prepared on the topic of talcum powder products and ovarian cancer would be your litigation report MS. BROWN: Object BY MS. PARFITT: Q in the multidistrict litigation? MS. BROWN: Objection to the form, misstates his testimony. THE WITNESS: I doubt it's the only report. But I certainly did prepare a report for
11 12 13 14 15 16 17 18 19 20 21	ovarian cancer?  MS. BROWN: Objection to the form of the question.  THE WITNESS: Correct.  BY MS. PARFITT:  Q Are there any publications in peer-reviewed publications on your curriculum vitae regarding the association or relationship between asbestos and ovarian cancer?  MS. BROWN: Objection. Asked and answered.	12 13 14 15 16 17 18 19 20 21 22	only report that you have prepared on the topic of talcum powder products and ovarian cancer would be your litigation report MS. BROWN: Object BY MS. PARFITT: Q in the multidistrict litigation? MS. BROWN: Objection to the form, misstates his testimony. THE WITNESS: I doubt it's the only report. But I certainly did prepare a report for this.

33 (Pages 126 to 129)

	Page 130		Page 132
1	and ovarian cancer?	1	BY MS. PARFITT:
2	MS. BROWN: Objection to the form.	2	Q Okay. So the record is clear and I'm
3	Litigation?	3	clear
4	MS. PARFITT: Litigation reports.	4	A Yeah.
5	THE WITNESS: Like less than ten, and	5	Q the only report that you have
6	and I may be getting the terminology wrong. I	6	prepared dealing with the your evaluation of
7	think there's like a couple of affidavits that I	7	the epidemiology on talcum powder products and
8	think to me are like a report. So I don't know	8	ovarian cancer is the report that we have marked
9	BY MS. PARFITT:	9	as exhibit I guess we haven't had it marked
10	Q That's a good clarification.	10	yet, but is the report that you filed in this
11	MS. BROWN: Well, let him finish. Let	11	case; is that right?
12	him finish.	12	MS. BROWN: Objection. Misstates his
13	BY MS. PARFITT:	13	testimony.
14	Q I was trying to clarify for you, Doctor.	14	MS. MILLER: When you say "report," do
15	MS. BROWN: Right, but just let him	15	you mean depositions?
16	finish and then you can clarify.	16	MS. PARFITT: Counsel, I I know
17	MS. PARFITT: Counsel, I will. Please.	17	we'll get to it. You'll get a you'll get a
18	THE WITNESS: But but that's what I	18	question.
19	meant, so there's there's other things that	19	MS. MILLER: It's not about us having a
20	I've sort of written in the litigation work that	20	question. It's about you asking fair questions.
21	are other than just this report that we're looking	21	MR. TISI: Well, it's not her job
22	at here today.	22	I'm going to jump in here because
23	BY MS. PARFITT:	23	MS. PARFITT: Okay. Right.
24	Q Okay. So your understanding of what you	24	MR. TISI: now you're double teaming.
25	have prepared in written form on talcum powder	25	I assume you have competent counsel defending this
	Page 131		Page 133
1	products and ovarian cancer would be, one,	1	deposition. Honestly, you did this last week, and
2	affidavits. Correct?	2	you've done it in every deposition, and you in
3	A Correct.	3	particular, and you have a real problem with
4	Q And two, a legal expert report or more?	4	obstructing depositions. You need to stop.
5	MS. BROWN: Form.	5	BY MS. PARFITT:
6	THE WITNESS: Correct.	6	Q Okay. Dr. Diette, I'll try and break it
7	BY MS. PARFITT:	7	down, and I'm just trying to this isn't a trick
8	Q Okay. Do you know whether or not you	8	question. So you let me know if you don't
9	have prepared any legal expert reports like the	9	understand my question.
10	one you prepared here in the MDL?	10	MS. BROWN: And, Counsel, in all
11	MS. BROWN: Objection to the form.	11	seriousness, in an effort to help, are you meaning
12	THE WITNESS: Well, on any topic?	12	to include or exclude the Ingham affidavit, which
13	BY MS. PARFITT:	13	I think is the
14	Q Affidavits no, on ovarian cancer and	14	MS. PARFITT: I haven't gotten to it. I
15	talcum powder products.	15	really haven't gotten to it. That's that's
16	A I don't think I	16	I'm hoping that the doctor knows what he what
17	MS. BROWN: I object.	17	he's filed.
18	THE WITNESS: I'm sorry.	18	Let's have marked as Plaintiffs' Exhibit
19	Yeah, I don't know if I've completed	19	No. 10.
20	another another report, although I'm just	20	(Diette Exhibit No. 10 was marked
21	trying to think if there was like like a case-	21	for identification.)
22	specific report that might have had something in	22	BY MS. PARFITT:
23	it. I mean not a report like this one, meaning	23	Q Okay. Dr. Diette, let me present you
24	where where the whole topic is just about	24	with an "Expert Report of Gregory Diette for
25	the the epidemiology and so forth.	25	General Causation Daubert Hearing." Okay.
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1	A That's this	1	BY MS. PARFITT:
2	Q Do you see that?	2	Q That's correct.
3	A That's this one for here?	3	A Oh, yeah, so then, no, nothing
4	Q Correct.	4	nothing for which I've been disclosed.
5	A Yes.	5	Q Okay. But I take it that you have been
6	Q All right. Now, you've identified on	6	retained you're currently retained to work on
7	the record that the report I have handed you,	7	some other cases other than talcum powder products
8	which is Exhibit No. 10, is a copy of your federal	8	and ovarian cancer, is that correct, by Johnson &
9	court expert report in the matter of dealing	9	Johnson?
10	with the issues of talc and ovarian cancer,	10	MS. BROWN: Counsel, I'm going to to
11	correct?	11	the extent you're asking about consulting
12	A Exactly right.	12	engagements, I'm going to instruct him not to
13	Q And in addition to that report, you have	13	answer.
14	prepared some affidavits in the past also	14	BY MS. PARFITT:
15	addressing the topic of talcum powder products and	15	Q No, I'm asking this: Are you an expert
16	ovarian cancer, correct?	16	on behalf of Johnson & Johnson and asbestos and
17	A That's correct.	17	and ovarian cancer cases?
18	Q Okay. Have you prepared any reports on	18	A So there's a subtlety there, right,
19	talcum powder products and ovarian cancer outside	19	because I mean you may call this an asbestos
20	of the legal context?	20	and ovarian cancer case. I think it's a talcum
21	MS. BROWN: Objection to the form.	21	powder and ovarian cancer case.
22	THE WITNESS: No.	22	Q Okay.
23	BY MS. PARFITT:	23	A There's nothing that's about asbestos
24	Q Okay. And have you provided any other	24	separately from what we're talking about here.
25	type of written report in a legal context, aside	25	Q Fair enough. Have you been retained by
	type of whiteh report in a regar content, aside		Q Tan chaugh. There you occurrenamed by
	Page 135		Page 137
1	from affidavits and the MDL report that you have	1	Johnson & Johnson to testify as a legal expert in
2	in front of you?	2	any talcum powder product cases and meso
3	MS. BROWN: Form.	3	mesothelioma?
4	BY MS. PARFITT:	4	A Yes.
5	Q On talcum powder products and ovarian	5	Q Okay. Are you currently an expert in
6	cancer. I'm just trying to find out your world.	6	any of those cases?
7	A No, I understand. And I'm not sure if	7	A Yes.
8	there could be like a work in progress. But	8	Q How many?
9	you're talking about completed, completed like	9	MS. BROWN: And again, Doctor, to the
10	products like this, right?	10	extent you've been disclosed, you can answer the
11	Q Correct.	11	question.
12	A I I can't think of another one.	12	THE WITNESS: So I don't I don't know
13	Q Okay. Do you have another report and/or	13	the count then. I would estimate ten, but I could
14	affidavit in progress in the talcum powder	14	be off by a couple.
15	products cases and ovarian cancer?	15	BY MS. PARFITT:
i	MS. BROWN: Dr. Diette, I'm going to	16	Q Have you given depositions in those
16	instruct you to the extent you're doing any work	17	cases yet?
16 17	monate jour to the entent jours doing any work	I	
		18	A In some cases I have.
17	on this issue that is in a consulting nature and	18 19	
17 18			Q Okay. Is this the first deposition that
17 18 19 20	on this issue that is in a consulting nature and has not been disclosed, you should not disclose that here.	19 20	Q Okay. Is this the first deposition that you have given in talcum powder products and
17 18 19 20 21	on this issue that is in a consulting nature and has not been disclosed, you should not disclose that here.  I assume counsel is only asking for	19 20 21	Q Okay. Is this the first deposition that you have given in talcum powder products and ovarian cancer?
17 18 19 20 21 22	on this issue that is in a consulting nature and has not been disclosed, you should not disclose that here.  I assume counsel is only asking for situations in which you have been disclosed as an	19 20 21 22	Q Okay. Is this the first deposition that you have given in talcum powder products and ovarian cancer?  MS. BROWN: Objection.
17 18 19 20 21 22 23	on this issue that is in a consulting nature and has not been disclosed, you should not disclose that here.  I assume counsel is only asking for situations in which you have been disclosed as an expert, and with that, you can answer the	19 20 21	Q Okay. Is this the first deposition that you have given in talcum powder products and ovarian cancer?  MS. BROWN: Objection.  THE WITNESS: I don't think so.
17 18 19 20 21 22	on this issue that is in a consulting nature and has not been disclosed, you should not disclose that here.  I assume counsel is only asking for situations in which you have been disclosed as an	19 20 21 22 23	Q Okay. Is this the first deposition that you have given in talcum powder products and ovarian cancer?  MS. BROWN: Objection.

	Page 138		Page 140
1	Ingham case?	1	yes.
2	A I did.	2	Q Okay. The last date I have here is
3	Q Okay. Did you testify at trial at the	3	September 28, '18.
4	Ingham case?	4	A No. It should go further.
5	A I did not.	5	MS. BROWN: We have another page,
6	Q Okay. Is there any other case other	6	Counsel.
7	than the Ingham case where you have given	7	MS. PARFITT: Okay.
8	deposition in an ovarian cancer and a talcum	8	THE WITNESS: I think it's two-sided, so
9	powder case?	9	it's the back of that page.
10	A I think there's at least one other one.	10	MS. PARFITT: Okay. Well
11	Q Okay. Do you remember the name of it?	11	MS. BROWN: Do you want my copy?
12	A I don't. I could look at my testimony	12	MS. PARFITT: That would be great. I
13	list and see if I can figure it out.	13	appreciate that. I will give it right back to
14	Q Okay. And we'll have that marked as	14	you.
15	well. Why don't we have that marked as Diette	15	BY MS. PARFITT:
16	Exhibit it's part of your exhibit number	16	Q Okay. All right. So the last date is
17	it's part of your report, but we'll have it marked	17	February 22nd, 2019; is that correct?
18	as a separate exhibit.	18	A That is.
19	(Counsel conferring.)	19	Q All right. Are you able to circle for
20	BY MS. PARFITT:	20	me which cases are cases in which you have been
21	Q Let me show you what's we'll have	21	retained as an expert in the on the topic of
22	marked as Exhibit No. 11.	22	talcum powder products and ovarian cancer?
23	(Diette Exhibit No. 11 was marked	23	MS. BROWN: Objection to the form.
24	for identification.)	24	You can answer to the extent you know,
25	BY MS. PARFITT:	25	Doctor.
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-	Page 139		Page 141
1	Q All right. Let me show you what's	1	THE WITNESS: I actually don't. I'd
2	Exhibit 11.	2	have to look it up to figure out if I'm right that
3	MS. PARFITT: We have a copy for	3 4	there is one on here, but I don't know and
4	counsel.	5	other than Ingham, right? BY MS. PARFITT:
5	MS. BROWN: Thank you. MR. ROSEN: I think there's	6	
6 7		7	Q Yes, sir.
8	THE WITNESS: Oh, there's two.	8	A Other than Ingham, yeah, so I I'm not
-	MS. PARFITT: Oh, okay, we'll take one	9	sure. I can't tell.  Q All right. Have you we talked about
9	back. Thank you. Okay. Very good.		•
10	BY MS. PARFITT:	10	your peer-reviewed publications. Are any of your
11	Q Dr. Diette, does this represent an	11	public peer-reviewed publications discussing cohort studies?
12	accurate list of cases in which you have been	12	
13	retained as an expert since I believe 2014?	13	MS. BROWN: Objection to the form.  THE WITNESS: So some of them are cohort
1 /	A Itia	1 7 /	
14	A It is.	14	
15	Q All right. Are there any additions to	15	studies.
15 16	Q All right. Are there any additions to this list of cases	15 16	studies. BY MS. PARFITT:
15 16 17	Q All right. Are there any additions to this list of cases A I'm sorry.	15 16 17	studies. BY MS. PARFITT: Q But you have performed
15 16 17 18	Q All right. Are there any additions to this list of cases A I'm sorry. Q where you've given testimony?	15 16 17 18	studies. BY MS. PARFITT: Q But you have performed MS. BROWN: Let him answer, please.
15 16 17 18 19	Q All right. Are there any additions to this list of cases A I'm sorry. Q where you've given testimony? A I'm sorry. I think I I wasn't paying	15 16 17 18 19	studies. BY MS. PARFITT: Q But you have performed MS. BROWN: Let him answer, please. MS. PARFITT: Sure.
15 16 17 18 19 20	Q All right. Are there any additions to this list of cases A I'm sorry. Q where you've given testimony? A I'm sorry. I think I I wasn't paying attention to your last question.	15 16 17 18 19 20	studies. BY MS. PARFITT: Q But you have performed MS. BROWN: Let him answer, please. MS. PARFITT: Sure. THE WITNESS: That I performed, yes.
15 16 17 18 19 20 21	Q All right. Are there any additions to this list of cases A I'm sorry. Q where you've given testimony? A I'm sorry. I think I I wasn't paying attention to your last question. Q That's all right.	15 16 17 18 19 20 21	studies.  BY MS. PARFITT:  Q But you have performed  MS. BROWN: Let him answer, please.  MS. PARFITT: Sure.  THE WITNESS: That I performed, yes.  BY MS. PARFITT:
15 16 17 18 19 20 21 22	Q All right. Are there any additions to this list of cases A I'm sorry. Q where you've given testimony? A I'm sorry. I think I I wasn't paying attention to your last question. Q That's all right. A Did you say is this a list of cases that	15 16 17 18 19 20 21 22	studies.  BY MS. PARFITT:  Q But you have performed  MS. BROWN: Let him answer, please.  MS. PARFITT: Sure.  THE WITNESS: That I performed, yes.  BY MS. PARFITT:  Q All right. So in your carrier as a
15 16 17 18 19 20 21 22 23	Q All right. Are there any additions to this list of cases A I'm sorry. Q where you've given testimony? A I'm sorry. I think I I wasn't paying attention to your last question. Q That's all right. A Did you say is this a list of cases that I provided depositions?	15 16 17 18 19 20 21 22 23	studies.  BY MS. PARFITT:  Q But you have performed  MS. BROWN: Let him answer, please.  MS. PARFITT: Sure.  THE WITNESS: That I performed, yes.  BY MS. PARFITT:  Q All right. So in your carrier as a medical doctor, you have published cohort studies?
15 16 17 18 19 20 21	Q All right. Are there any additions to this list of cases A I'm sorry. Q where you've given testimony? A I'm sorry. I think I I wasn't paying attention to your last question. Q That's all right. A Did you say is this a list of cases that	15 16 17 18 19 20 21 22	studies.  BY MS. PARFITT:  Q But you have performed  MS. BROWN: Let him answer, please.  MS. PARFITT: Sure.  THE WITNESS: That I performed, yes.  BY MS. PARFITT:  Q All right. So in your carrier as a

36 (Pages 138 to 141)

14 Q And is it fair to say that none of the cohort studies that you published address the issue of talcum powder products and mesothelioma?  17 A Correct. 18 Q Is it fair to say that none of the cohort studies that you have published address the issue of asbestos and mesothelioma?  19 cohort studies that you have published address the issue of asbestos and mesothelioma?  20 issue of asbestos and mesothelioma?  21 A Correct. 22 Q Is it fair to say that that the againgtive fyour publications in your listed in your curriculum CV and those that you said you have published since 2017 deal primarily in the  22 page 143  1 research interests of lung disease, COPD, asthma A BY MS. PARFITT: 2 asthma BY MS. PARFITT: 3 MS. BROWN: Objection BY MS. PARFITT: 4 A Correct. 4 BY MS. PARFITT: 5 Q - pulmonary medicine, lung diseases? 6 MS. BROWN: Objection to the form. 7 THE WITNESS: There's certainly plenty there. You know, I get different feedback from different people who look at my CV to tell whether or not it's, you know, all that or whether there's they what they see. Because there's you they what they see. Because there's you is know, there's ICU research topics, there's all all sorts of different things besides those.  17 BY MS. PARFITT: 18 Q O Kay. Do you publish on methods and methodology? 20 MS. BROWN: Form. 21 THE WITNESS: So I think there's a couple of methods methods related papers. 22 Data that ro that are relevant the warticulate the the issues that are that are relevant the		Page 142		Page 144
a respiratory diseases and – and things people inhale.  4	1	those cohort studies?	1	MS. BROWN: Wait. Hold on. Is that a
4 inhale. 5 Q All right. Have you published case- control studies? 7 A I don't know. I can't think of one. It 8 doesen't mean that there isn't one, but I'm -1 I 9 can't think of a case-control study. 10 Q All right. Is it fair to say that none 11 of the published cohort studies address the issue 12 of talcum powder products and ovarian cancer? 13 A Correct. 14 Q And is it fair to say that none of the 15 cohort studies that you published address the 16 issue of falcum powder products and mesothelioma? 17 A Correct. 18 Q Is it fair to say that none of the 19 cohort studies that you published address the 19 cohort studies that you published address the 20 issue of absence of alcum powder products and mesothelioma? 21 A Correct. 22 Q Is it fair to say that none of the 23 majority of your publications in your – listed in 24 your curriculum CV and those that you said you 25 have published since 2017 deal primarily in the 27 page 143 2 research interests of lung diseases, COPD, 2 asthma - 2 Page 143 2 research interests of lung diseases, COPD, 3 m MS. BROWN: Objection - 4 BY MS. PARFITT: 5 Q - pulmonary medicine, lung diseases? 6 MS. BROWN: Objection to the form. 7 THE WITNESS: Is let the proper law at the	2	A Generally speaking, things related to	2	question?
Figure 1	3	respiratory diseases and and things people	3	MS. PARFITT: Mm-hmm.
6 control studies? 7 A I don't know. I can't think of one. It 8 doesn't mean that there isn't one, but I'm - I 9 can't think of a case-control study. 9 healthcare. 10 Q All right. Is it fair to say that none 11 of the published cohort studies address the issue 12 of talcum powder products and ovarian cancer? 13 A Correct. 14 Q And is it fair to say that none of the 15 cohort studies that you published address the 16 issue of falcum powder products and mesothelioma? 17 A Correct. 18 Q Is it fair to say that none of the 19 cohort studies that you published address the 19 cohort studies that you have published address the 20 issue of asbestos and mesothelioma? 21 A Correct. 22 Q Is it fair to say that - that the 23 majority of your publications in your - listed in 24 your curriculum CV and those that you said you 25 have published since 2017 deal primarily in the 26 mS. BROWN: Objection - 27 A BROWN: Objection to the form. 28 A Correct. 29 A S. BROWN: Objection - 30 A Correct. 31 THE WITNESS: There's certainly plenty 32 there. You know, I get different feedback from 33 different people who look at my CV to tell whether or on tit's, you know, all that or whether there's 34 procedure-related topics, there's all - all sorts of 35 different frienges lesseds those. 36 MS. BROWN: Objection to methods and 37 methodology? 38 MS. PARFITT: 39 MS. PARFITT: 40 Q Right. So nothing you can remember 41 today. 41 BY MS. PARFITT: 42 Q Right. So nothing you can remember 43 today. 44 Correct. 45 Q Pullmonary medicine, lung diseases? 46 MS. BROWN: Objection to the form. 47 THE WITNESS: There's certainly plenty 48 there. You know, all that or whether there's 49 topics. I mean there's all - all sorts of 40 different things besides those. 41 procedure-related topics, there's radiology 41 topics. I mean there's all - all sorts of 42 different friengloselds those. 43 procedure-related topics, there's radiology 44 procedure-related topics, there's radiology 45 mS. BROWN: Objection to methods and 46 methodology? 46 MS. BROWN: Objection to m	4	inhale.	4	MS. BROWN: I didn't understand that.
A I doen't know. I can't think of one. It doesn't mean that there isn't one, but I'm - I can't think of a case-control study.  Q All right. Is if fair to say that none of the published cohort studies address the issue of talcum powder products and ovarian cancer? 12 of falcum powder products and ovarian cancer? 13 A Correct. Q And is it fair to say that none of the issue of falcum powder products and mesothelioma? A Correct. Q Is it fair to say that none of the cohort studies that you published address the issue of falcum powder products and mesothelioma? A Correct. Q Is it fair to say that none of the cohort studies that you have published address the issue of abestos and mesothelioma? A Correct. Q Is it fair to say that the majority of your publications in your — listed in your curriculum CV and those that you said you have published since 2017 deal primarily in the  Page 143  research interests of lung disease, COPD, A BY MS. PARFITT: A Correct. Q - pulmonary medicine, lung diseases? MS. BROWN: Objection to the form. THE WITNESS: There's certainly plenty they what they see. Because there's — you drifferent people who look at my CV to tell whether or not it's, you know, all that or whether there's tother things. I think people read into it what tother things. I think people read into it what tother things. I think people read into it what tother things. I think people read into it what tother things. I think people read into it what tother things. I think people read into it what tother things. I think people read into it what tother things. I think people read into it what tother things. I think people read into it what tother things. I think people read into it what tother things. I think people read into it what tother things. I think people read into it what tother things. I think people read into it what tother things. I think people read into it what tother things. I think people read into it what tother things. I think people read into it what tother things. I think people read into it what tother thin	5	Q All right. Have you published case-	5	If you understood it, you can answer.
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10	7	A I don't know. I can't think of one. It	7	thinking about had to do with methods and
10 Q All right. Is it fair to say that none of the published cohort studies address the issue of alcum powder products and ovarian cancer? 12 of alcum powder products and ovarian cancer? 13 A Correct. 14 Q And is it fair to say that none of the close of the contrastides that you published address the issue of falcum powder products and mesothelioma? 16 Good ont studies that you published address the issue of asbestos and mesothelioma? 17 A Correct. 18 Q Is it fair to say that none of the close of asbestos and mesothelioma? 19 cohort studies that you have published address the issue of asbestos and mesothelioma? 20 issue of asbestos and mesothelioma? 21 A Correct. 22 Q Is it fair to say that that the majority of your publications in your listed in water than the water than the majority of your publications in your listed in water than the water than the water than the water than the same published since 2017 deal primarily in the page 143 1 research interests of lung diseases, COPD, asthma 3 MS. BROWN: Objection 4 BY MS. PARFITT: 5 Q pulmonary medicine, lung diseases? 6 MS. BROWN: Objection to the form. 7 THE WITINESS: Ther's certainly plenty there. You know, I get different feedback from different people who look at my CV to tell whether ther's there. You know, I get different feedback from different people who look at my CV to tell whether ther's they what they see. Because there's you they conduct the sail all sorts of different things besides those. 16 different things besides those. 17 BY MS. PARFITT: 18 Q Okay. Do you publish on methods and methodology? 20 MS. BROWN: Form. 21 THE WITINESS: So It hink there's a couple of methods methods related papers. 22 couple of methods methods related papers. 23 BY MS. PARFITT: A Correct. 24 Q Right. So nothing you can remember today. 25 MS. BROWN: Form. 26 MS. BROWN: Form. 27 BY MS. PARFITT: 28 PY MS. PARFITT: 40 A Correct. 41 PY MS. PARFITT: 42 A Correct. 43 Correct. 44 PY Correct. 55 Q Right. So nothing you on published and mesothelio	8	doesn't mean that there isn't one, but I'm I	8	quality quality assessment in terms of
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14 O And is it fair to say that none of the cohort studies that you published address the issue of talcum powder products and mesothelioma?  17 A Correct. 18 Q Is it fair to say that none of the cohort studies that you have published address the issue of asbestos and mesothelioma?  19 cohort studies that you have published address the issue of asbestos and mesothelioma?  20 issue of asbestos and mesothelioma?  21 A Correct. 22 Q Is it fair to say that that the 23 majority of your publications in your listed in 24 your curriculum CV and those that you said you have published since 2017 deal primarily in the 25 so  Page 143  1 research interests of lung disease, COPD, asthma 20 AB, BROWN: Objection to the form.  Page 144  1 research interests of lung disease, COPD, asthma 20 AB, BROWN: Objection 30 AB, BROWN: Objection 30 AB, BROWN: Objection 30 AB, BROWN: Objection 30 AB, BROWN: Objection to the form.  THE WITNESS: There's certainly plenty there. You know, I get different feedback from 30 different people who look at my CV to tell whether 31 or not it's, you know, all that or whether there's 31 chey what they see. Because there's you 42 Ab, and have you published in a peer reviewed 34 pour and see. I mean it's it's possible I've been 34 involved in something that that thae it's 200 plus papers, so 34 by MS, PARFITT: 34 A Correct. 35 Q Right. So nothing you can remember 36 doday. 36 AB, BROWN: Objection to the form. 36 AB, BROWN: Objection to the form. 37 THE WITNESS: There's certainly plenty 38 AB, BROWN: Objection to the form. 39 AB, BROWN: Objection to the form. 39 AB, BROWN: Objection to the form. 30 AB, BROWN: Objection to the form. 30 AB, BROWN: Objection to the form. 31 AB, BROWN: Objection to the form. 31 AB, BROWN: Objection to the form of the your and you see for the interest of the your and you see for the interest of the your and you set for the interest of the your and you set for the interest of the your and you set for the interest of the your and you se	12	of talcum powder products and ovarian cancer?	12	
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your curriculum CV and those that you said you have published since 2017 deal primarily in the  Page 143  Page 144  research interests of lung disease, COPD, asthma  BY MS. BROWN: Objection  BY MS. PARFITT:  Q Right. So nothing you can remember today.  BY MS. PARFITT:  Q Okay. And have you published on the Bradford Hill factors?  THE WITNESS: There's certainly plenty different people who look at my CV to tell whether or or not it's, you know, all that or whether there's or or not it's, you know, all that or whether there's lour expectated topics, there's radiology topics. I mean there's all all sorts of different things besides those.  BY MS. PARFITT:  Q Okay. Do you publish on methods and methodology?  MS. BROWN: Form.  Page 14  BY MS. PARFITT:  Q Right. So nothing you can remember today.  A Correct.  Q Okay. And have you published on the Bradford Hill factors?  MS. BROWN: Form.  MR. LOCKE: Objection.  THE WITNESS: So I've not written a paper about Bradford Hill.  BY MS. PARFITT:  Q All right. In any of the 200 papers that you have published in a peer-reviewed journal, do you set forth in those papers the Bradford Hill framework?  MS. BROWN: Objection to the form of the question.  THE WITNESS: You couldn't do it.  Right. I mean, it's the papers that I write are primary research papers, and that framework doesn't belong in those papers, but we articulate the the issues that are that are relevant			22	_
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18 Q Okay. Do you publish on methods and 19 methodology? 19 Right. I mean, it's the papers that I write 20 MS. BROWN: Form. 21 THE WITNESS: So I think there's a 22 couple of methods methods related papers. 22 The with the papers and that framework 23 the the issues that are that are relevant				MS. BROWN: Objection to the form of the
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couple of methods methods related papers.  22 the the issues that are that are relevant				
			1	
	23	BY MS. PARFITT:	23	for a Bradford Hill analysis.
Q Papers that deal primarily with 24 BY MS. PARFITT:				
25 epidemiological methodology? 25 Q Okay. Well, in this expert report that	25	epidemiological methodology?	25	Q Okay. Well, in this expert report that

	Page 146		Page 148
1	you did file in the federal court, you stated	1	different than what you asked? Because I'm
2	specifically that you followed the Bradford Hill	2	just
3	framework. Do you recall saying that?	3	BY MS. PARFITT:
4	A I I do. There was more to it, but it	4	Q It is.
5	included that.	5	This would be some original research
6	Q Okay. So what I'm asking you, in any of	6	that you might be got a funding or a grant or
7	the papers, whether they be cohort study, case	7	something.
8	control, other research and scientific	8	A I see. Nothing like that.
9	publications that you've listed on your curriculum	9	Q Okay. Have you received any funds
10	vitae, have you stated in those papers that you	10	any funding or any grants to study mesothelioma?
11	are following or are guided by the Bradford Hill	11	A No.
12	framework?	12	Q Have you received any funding or grants
13	MS. BROWN: Objection. He just answered	13	to study asbestos?
14	that.	14	A No.
15	THE WITNESS: Yeah, it's sort of baked	15	Q Have you received any funding or grants
16	into what we do. So it's like in I mean the	16	to study talcum powder products and their
17	answer is no, generally, but but we include	17	association with ovarian cancer?
18	things in a way that they fit with what Bradford	18	MS. BROWN: Objection to the form.
19	Hill considerations are. But there's not one that	19	THE WITNESS: No.
20	was called like the Bradford Hill approach or	20	BY MS. PARFITT:
21	something.	21	Q Have you ever published in peer-reviewed
22	BY MS. PARFITT:	22	literature a causation analysis or a review
23	Q Okay. And by	23	article asking whether an exposure causes a
24	MS. BROWN: Let him finish.	24	disease?
25	Were you finished, Doctor?	25	MS. BROWN: Objection to the form of the
	Page 147		Page 149
1	THE WITNESS: I'm okay. Thank you.	1	question.
2	MS. PARFITT: Thank you.	2	THE WITNESS: I don't know. I would
3	BY MS. PARFITT:	3	have to look back over. I don't like I don't
4	Q Assume I did a search of the word	4	know if I would use those words "causation
5	"Bradford Hill" in the 167 papers that you have	5	analysis," but we certainly write did you say
6	published in the peer-reviewed journal, would it	6	review article?
7	surprise you if those words did not appear?	7	BY MS. PARFITT:
8	MS. BROWN: Objection to the form.	8	Q Yes.
9	THE WITNESS: It wouldn't surprise me,	9	A So I don't write many review articles.
1.0	the restriction of the state of	1	
10	but I I don't know that it's not there	10	They're really they're really low quality
11	somewhere. And I would search more broadly than	10 11	They're really they're really low quality academic products for the most part, and so I try
11	somewhere. And I would search more broadly than	11	academic products for the most part, and so I try
11 12	somewhere. And I would search more broadly than just those 167. I would look at the more recent	11 12	academic products for the most part, and so I try to focus more on original research.
11 12 13	somewhere. And I would search more broadly than just those 167. I would look at the more recent ones too. I mean I can't say that it's not there,	11 12 13	academic products for the most part, and so I try to focus more on original research.  Q All right. Well, same question applied
11 12 13 14	somewhere. And I would search more broadly than just those 167. I would look at the more recent ones too. I mean I can't say that it's not there, but there's not a paper about Bradford Hill.	11 12 13 14	academic products for the most part, and so I try to focus more on original research.  Q All right. Well, same question applied to original research.
11 12 13 14 15	somewhere. And I would search more broadly than just those 167. I would look at the more recent ones too. I mean I can't say that it's not there, but there's not a paper about Bradford Hill. BY MS. PARFITT:	11 12 13 14 15	academic products for the most part, and so I try to focus more on original research.  Q All right. Well, same question applied to original research.  MS. BROWN: Objection to the form.
11 12 13 14 15	somewhere. And I would search more broadly than just those 167. I would look at the more recent ones too. I mean I can't say that it's not there, but there's not a paper about Bradford Hill.  BY MS. PARFITT:  Q Okay. Have you been involved in any	11 12 13 14 15 16	academic products for the most part, and so I try to focus more on original research.  Q All right. Well, same question applied to original research.  MS. BROWN: Objection to the form. THE WITNESS: Well, it wouldn't be I
11 12 13 14 15 16 17	somewhere. And I would search more broadly than just those 167. I would look at the more recent ones too. I mean I can't say that it's not there, but there's not a paper about Bradford Hill.  BY MS. PARFITT:  Q Okay. Have you been involved in any original research on asbestos in general?	11 12 13 14 15 16 17	academic products for the most part, and so I try to focus more on original research.  Q All right. Well, same question applied to original research.  MS. BROWN: Objection to the form.  THE WITNESS: Well, it wouldn't be I mean that wouldn't be an original research
11 12 13 14 15 16 17	somewhere. And I would search more broadly than just those 167. I would look at the more recent ones too. I mean I can't say that it's not there, but there's not a paper about Bradford Hill.  BY MS. PARFITT:  Q Okay. Have you been involved in any original research on asbestos in general?  MS. BROWN: Objection to the form.	11 12 13 14 15 16 17 18	academic products for the most part, and so I try to focus more on original research.  Q All right. Well, same question applied to original research.  MS. BROWN: Objection to the form.  THE WITNESS: Well, it wouldn't be I mean that wouldn't be an original research article.
11 12 13 14 15 16 17 18	somewhere. And I would search more broadly than just those 167. I would look at the more recent ones too. I mean I can't say that it's not there, but there's not a paper about Bradford Hill.  BY MS. PARFITT:  Q Okay. Have you been involved in any original research on asbestos in general?  MS. BROWN: Objection to the form.  THE WITNESS: I have not.	11 12 13 14 15 16 17 18 19	academic products for the most part, and so I try to focus more on original research.  Q All right. Well, same question applied to original research.  MS. BROWN: Objection to the form.  THE WITNESS: Well, it wouldn't be I mean that wouldn't be an original research article. BY MS. PARFITT:
11 12 13 14 15 16 17 18 19 20	somewhere. And I would search more broadly than just those 167. I would look at the more recent ones too. I mean I can't say that it's not there, but there's not a paper about Bradford Hill.  BY MS. PARFITT:  Q Okay. Have you been involved in any original research on asbestos in general?  MS. BROWN: Objection to the form.  THE WITNESS: I have not.  BY MS. PARFITT:	11 12 13 14 15 16 17 18 19 20	academic products for the most part, and so I try to focus more on original research.  Q All right. Well, same question applied to original research.  MS. BROWN: Objection to the form.  THE WITNESS: Well, it wouldn't be I mean that wouldn't be an original research article.  BY MS. PARFITT:  Q Okay. Have you ever performed any
11 12 13 14 15 16 17 18 19 20 21	somewhere. And I would search more broadly than just those 167. I would look at the more recent ones too. I mean I can't say that it's not there, but there's not a paper about Bradford Hill.  BY MS. PARFITT:  Q Okay. Have you been involved in any original research on asbestos in general?  MS. BROWN: Objection to the form.  THE WITNESS: I have not.  BY MS. PARFITT:  Q Have you have you conducted any	11 12 13 14 15 16 17 18 19 20 21	academic products for the most part, and so I try to focus more on original research.  Q All right. Well, same question applied to original research.  MS. BROWN: Objection to the form.  THE WITNESS: Well, it wouldn't be I mean that wouldn't be an original research article.  BY MS. PARFITT:  Q Okay. Have you ever performed any research on the environmental impacts of talcum powder products and ovarian cancer?
11 12 13 14 15 16 17 18 19 20 21	somewhere. And I would search more broadly than just those 167. I would look at the more recent ones too. I mean I can't say that it's not there, but there's not a paper about Bradford Hill.  BY MS. PARFITT:  Q Okay. Have you been involved in any original research on asbestos in general?  MS. BROWN: Objection to the form.  THE WITNESS: I have not.  BY MS. PARFITT:  Q Have you have you conducted any original research on ovarian cancer?	11 12 13 14 15 16 17 18 19 20 21 22	academic products for the most part, and so I try to focus more on original research.  Q All right. Well, same question applied to original research.  MS. BROWN: Objection to the form.  THE WITNESS: Well, it wouldn't be I mean that wouldn't be an original research article.  BY MS. PARFITT:  Q Okay. Have you ever performed any research on the environmental impacts of talcum

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BY MS. PARFITT:  Q Environmental impacts of diseases is something is a topic that you are interesting in, correct?  A I am. Q You've studied the impact of environmental effects on lung diseases, correct? A I have. Q In fact, that's something you continue to be interested in, correct? A I am. Q But you've not studied any environmental impacts on ovarian cancer, correct? A Correct. MS. BROWN: Asked and answered. BY MS. PARFITT: Q Would it be fair to say that prior to being retained by Johnson & Johnson sometime in 2017, you had done no research on the issue of talcum powder products and ovarian cancer? MS. BROWN: Objection to the form, misstates his testimony.	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q And to give you some a reference, we'll spend a little time on that before we get into your report. All right? Fair?  A Sounds good. Q Okay. What is Medical Science Affiliates? A I think they they call themselves an environmental consulting company. Q How long have you been involved with Medical Science Affiliates? MS. BROWN: Form. THE WITNESS: So involved, I guess we'll have to sort, but I I've known about them and done some work with them for about ten years. BY MS. PARFITT: Q Okay. And I too want to sort, so let me ask you this: When were you first introduced to Medical Science Affiliates? A Well, I guess if it's ten years, it would have been about ten years ago. Q And what were how did it come about
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MS. BROWN: Objection to the form, misstates his testimony.	21	Q And what were how did it come about
misstates his testimony.	22	
		that you learned of a group called Medical Science
THE WITNESS: I think it's the same as	23	Affiliates?
	24	A There was a woman who worked there
		then I don't remember what her name is, she's
		,
Page 151		Page 153
BY MS. PARFITT:	1	not there anymore and she knew a colleague of
Q So it was not until you were retained by	2	mine, and they were I think at the time looking
Johnson & Johnson that you conducted any research	3	for somebody to take on an epidemiology project, a
on the topic of ovarian cancer and talcum powder	4	review. And so he he sent around like a note
products, correct?	5	or talked to us, I don't remember how he did it,
MS. BROWN: Objection to the form,	6	but to see if anybody was interested in in
misstates his testimony.	7	doing an epidemiology project.
THE WITNESS: That is right.	8	Q Who was that colleague?
MS. PARFITT: Okay. And is now a good	9	A I think it was Hank Fessler, but I could
time for a bio break or is it	10	be wrong. That's a while ago.
MS. PARFITT: Sure.	11	Q And what is his position within the
THE WITNESS: If you're in the middle of	12	university?
something, I	13	A He works in pulmonary.
MS. PARFITT: No, no, this is fine.	14	Q Okay. So you were you were then
We'll just move into another area quickly, yeah.	15	engaged by Medical Science Affiliates to do an
THE VIDEOGRAPHER: The time is	16	epidemiological report for them?
11:14 a.m., and we're going off the record.	17	MS. BROWN: Objection. Misstates
(Recess.)	18	testimony.
THE VIDEOGRAPHER: The time is	19	THE WITNESS: I don't know about
11:24 a.m., and we are back on the record.	20	engaged. I mean my my relationship is as an
BY MS. PARFITT:	21	independent contractor. So it's like it's not
	22	like I have an agreement to do anything with them
	23	or for them. But that's that's the place
	24	where, you know, they organize the materials for
_	25	me to look over and to and to do the
	BY MS. PARFITT:  Q So it was not until you were retained by Johnson & Johnson that you conducted any research on the topic of ovarian cancer and talcum powder products, correct?  MS. BROWN: Objection to the form, misstates his testimony.  THE WITNESS: That is right.  MS. PARFITT: Okay. And is now a good time for a bio break or is it  MS. PARFITT: Sure.  THE WITNESS: If you're in the middle of something, I  MS. PARFITT: No, no, this is fine.  We'll just move into another area quickly, yeah.  THE VIDEOGRAPHER: The time is  11:14 a.m., and we're going off the record.  (Recess.)  THE VIDEOGRAPHER: The time is	Page 151  BY MS. PARFITT:  Q So it was not until you were retained by Johnson & Johnson that you conducted any research on the topic of ovarian cancer and talcum powder products, correct?  MS. BROWN: Objection to the form, misstates his testimony.  THE WITNESS: That is right.  MS. PARFITT: Okay. And is now a good time for a bio break or is it  MS. PARFITT: Sure.  THE WITNESS: If you're in the middle of something, I  MS. PARFITT: No, no, this is fine.  We'll just move into another area quickly, yeah.  THE VIDEOGRAPHER: The time is 11:14 a.m., and we're going off the record.  (Recess.)  THE VIDEOGRAPHER: The time is 11:24 a.m., and we are back on the record.  BY MS. PARFITT:  Q All right. Dr. Diette, I want to talk for a moment about Medical Science Affiliates.  All right?

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	Page 154		Page 156
1	epidemiological review.	1	Q More 50?
2	BY MS. PARFITT:	2	A At least 50.
3	Q Okay. Your counsel has objected, as you	3	Q Okay. And what has been the topic of
4	heard, to me obtaining a copy of your agreement,	4	those reports that you have prepared for Medical
5	so I'm going to have to ask you a few more	5	Science Affiliates' clients?
6	questions about this.	6	MS. BROWN: And I'm going to jump in
7	What is your arrangement with Medical	7	here. To the extent that those projects are
8	Science Affiliates? Independent contractor?	8	governed by confidentiality agreements, I would
9	A That's exactly right.	9	ask Dr. Diette that you only disclose that which
10	MS. BROWN: He just said it.	10	has been disclosed publicly, for example, in court
11	MS. PARFITT: Okay. I understand. You	11	or at a deposition.
12	can take your own deposition, Counsel. It's going	12	MS. PARFITT: Please stop coaching the
13	to show up on the record too, you're rubbing your	13	witness.
14	head.	14	BY MS. PARFITT:
15	BY MS. PARFITT:	15	Q Can you answer?
16	Q Medical Science, you have an independent	16	MS. BROWN: We're trying to protect
17	contract relationship, to do what?	17	confidentiality.
18	A I think what it establishes is that I	18	MS. PARFITT: I get
19	can use their administrative services as kind of	19	MS. BROWN: I'm instructing him on
20	like an outside office for me to do work.	20	privilege.
21	Q Okay. So that's one role, they're an	21	MS. PARFITT: That's fine. I
22	outside office. You mentioned, though, that they	22	understood. He can talk now.
23	contracted you to also write an epidemiology	23	THE WITNESS: So I would say that most
24	report. Correct?	24	of the work is in the context of what Ms. Brown
25	A It's	25	said, which is that it wasn't for me to share with
25	A its	23	said, which is that it wasn't for the to share with
	Page 155		
	rage 133		Page 157
1	MS. BROWN: Objection to the form.	1	Page 157 other people.
1 2		1 2	
	MS. BROWN: Objection to the form. THE WITNESS: It's incorrect. BY MS. PARFITT:		other people.
2	MS. BROWN: Objection to the form. THE WITNESS: It's incorrect. BY MS. PARFITT: Q Okay. Straighten it out for me.	2	other people. BY MS. PARFITT:
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. BROWN: Objection to the form. THE WITNESS: It's incorrect.  BY MS. PARFITT:  Q Okay. Straighten it out for me. A Well, they didn't contract me to do anything. They asked if I was interested in doing this epidemiologic project for a client that they knew of. Q Okay. That helps me. So Medical Science Affiliates reached out requested that you do an epidemiological report for one of their clients. A Exactly right. Q Okay. Over the course of ten years that you've been affiliated as an independent contractor with Medical Science Affiliates, how many times have you prepared a report for one of Medical Science Affiliates' clients? A I don't know. Q More than ten? A Sure. Q More than a hundred? A A hundred would be pushing it. So	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	other people. BY MS. PARFITT: Q All right. Is J&J a client of Medical Science Affiliates? A I don't know what their relationship is, like I don't know if you would call them a client or not. Q Okay. Does Medical Science Affiliates do some work for Johnson & Johnson? MS. BROWN: Objection. Speculation. THE WITNESS: So I can tell you about what they do for me with regard to Johnson & Johnson. I don't know about anything else. BY MS. PARFITT: Q All right. Tell me what you know. A Well, like, for example, like in the cases that we've discussed that involve Johnson & Johnson, they've provided a service by collecting the materials, right. So, for example, like when you see that list of materials that that I provided that I reviewed, they will collect those and and organize them for me. If there's a need to have a meeting or a
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	Page 158		Page 160
1	they were able to help sort my through my	1	you said, which is that they billed somebody else
2	schedule, you know, with me, and figure out a day	2	for the work that they did.
3	or days, I don't remember what we offered, things	3	BY MS. PARFITT:
4	of that sort. They'll prepare invoices on my	4	Q Do you know who that somebody else is?
5	behalf. They'll help edit a report. You know,	5	And I want to remind you you're under oath,
6	administrative type things.	6	Dr. Diette.
7	Q Okay. Let's break that down a little	7	MS. BROWN: What
8	bit.	8	THE WITNESS: What's
9	Is it your understanding that Medical	9	MS. BROWN: Whoa, whoa, whoa. I'm
10	Science Affiliates bills Johnson & Johnson	10	objecting to the implication there. Dr. Diette
11	MS. BROWN: Object	11	has done nothing but testify truthfully today.
12	BY MS. PARFITT:	12	MS. PARFITT: Counsel, objection, form.
13	Q and invoices them for work?	13	I'm telling you.
14	MS. BROWN: Objection to the form, calls	14	BY MS. PARFITT:
15	for speculation.	15	Q Please go on, Dr. Diette.
16	BY MS. PARFITT:	16	MS. BROWN: No, but what you just said
17	Q If you know.	17	is inappropriate
18	A I don't know where the bill goes because	18	MS. PARFITT: It was not
19	I don't know if it goes to the law firm. Like if	19	MS. BROWN: and it violates both the
20	it matters to you whether it's directly to Johnson	20	federal rules
21	& Johnson or I mean I can only guess that, you	21	MS. PARFITT: violative of anything,
22	know, the law firm is not going to pay the bill	22	Counsel.
23	out of their own pocket. They're probably going	23	MS. BROWN: as well as deposition
24	to then invoice Johnson & Johnson, but I don't	24	protocol. He of course is testifying under oath,
25	know whether the bill goes directly to Johnson &	25	and if you're suggesting something otherwise,
	5		
	Page 159		Page 161
1	Johnson or whether it goes to the law firm.	1	that's wildly inappropriate.
2	Q All right.	2	MS. PARFITT: Counsel, let the Court
3	MS. BROWN: And, Doctor, counsel doesn't	3	decide if it's I think the Court might decide
4	want you to guess, so just answer the question the	4	that your objections and your manner today are
5	best	5	wildly inappropriate.
6	BY MS. PARFITT:	6	BY MS. PARFITT:
7	Q Dr. Diette, if they Medical Science	7	Q So, Dr. Diette, so we can move forward,
8	Affiliates collects material for you as you say	8	do you remember the question?
9	they did, correct?	9	A I remember it, but I think I already
10	A That's correct.	10	answered it. It's I don't have a better answer
11	Q do they bill you or do they bill	11	than what I gave you before.
12	someone else?	12	Q You don't know who Medical Science
13	MS. BROWN: Objection to the form.	13	billed for the services they rendered to you?
14	THE WITNESS: They bill someone else.	14	A Well, let's look at the invoice if we
15	BY MS. PARFITT:	15	want to. If it's on the top of that, then I
16	Q Okay. So when you testified that J&J	16	might
17	excuse me, when you testified that you had	17	Q It's been blacked out, Dr. Diette.
18	assistance with regard to the preparation of some	18	A So it's either a law firm or it's
19	of the materials that accompany your report, that	19	Johnson & Johnson. I don't know whether it's one
20	was work that you contracted with Medical Service	20	or the other.
21	Affiliates to do, and they didn't bill you, they	21	MS. BROWN: Counsel, you're
22	billed somebody else, correct?	22	misrepresenting the documents. It's very clear
23	MS. BROWN: Objection to the form.	23	who they sent the bill to on the face of the
			invoice, and it has not been redacted for
24	THE WITNESS: I don't know it	24	
24 25	THE WITNESS: I don't know if "contracted" is right, but but they did what	24 25	
	"contracted" is right, but but they did what		work-product privilege.

BY MS. PARFITT:  Q With I want to understand, for purpose of the expert report you prepared in this lifigation, I want you to tell me, if you will, every service that Medical Science Affiliates performed for you.  A I don't think I can give you a full list. I think that the -go ahead. Q No, no, please, go ahead. A All right. So I think the category of things that I told you about before are the kinds of the performance of the formation to you in the pass of the you keep asking the same thing, and if - my answer is I'm and the T min to - I'm to you have gathered a couple of papers, I don't remember, I to you Po they e-mail it to you? Do th		Page 162		Page 164
Q What I want to understand, for purpose of the expert report you prepared in this shall be severy service that Medical Science Affiliates performed for you.  A I don't think I can give you a full bit, I think that the - go ahead. Q No, no, please, go ahead. A All right. So I think the category of things that they that they did in this case. I I don't know if I mentioned like arranging like a phono call. Like if I was going to have a phono call, they would arrange that. Help with I already talked about defining editing reports and I can't think of right now. Q Okay. Did Medical Science Affiliates or research the scientific literature for you in preparation for some of the information contained in your expert report? A I don't I don't think they did any of that. I mean, they've they've done searches in the past on other other topics, but I don't  Page 163 think they did any for this. Q All right. So it's your testimony that in the talcum powder and ovarian cancer case, they did not do any research of the per-reviewed is about talcum powder and ovarian cancer case, they did not do any research of the per-reviewed is report and over talking about this particular matter as you're asking these questions or or- Q Well, that's a that's a great point. You got involved in talcum powder and ovarian cancer cases sometime in 2017. Thar's your testimony. A I tis. Q All right. So it shall be caused this particular matter as you're asking these questions or where you be write talking about this particular matter as you're asking these questions or where you have cases or whatever, but we're talking about this particular matter as you're asking these questions or or- 10 Q Well, that's a that's a great point. You got involved in talcum powder and ovarian cancer cases sometime in 2017. Thar's your testimony. A I tis. Q All right. So at that point in time when you became engaged to work on talcum powder and varian cancer when you became engaged to work on talcum powder and varian cancer when you became	1	BY MS. PARFITT:	1	something else with the papers?
of the expert report you prepared in this  litigation, I want you to tell me, if you will,  every service that Medical Science Affiliates  performed for you.  A I don't think I can give you a full  list. I think that the —go ahead.  Q No, no, please, go ahead.  A All right. So I think the category of things that I told you about before are the kinds  of things that the —I that they did in his case.  I don't know if I mentioned like arranging like a phone call, they would arrange that. Help with —I already talked about editing — editing reports and are already talked about editing — editing reports and preparation for some of the information contained preparation for some of the information contained in preparation for some of the information contained in preparation for some of the information contained in the past on other — other topics, but I don't think they did any for that. I mean, they've — they've done har at my request in the past. But not — not too much. I mean is a full that sharl t legitly the case of the information contained preparation for some of the information contained in preparation for some of the information contained in preparation for some of the information contained in your expert report?  A I don't — I don't think they did any of that. I mean, they've — they've done har at my request in the past. But not — not too much. I mean they scull in the lease of think sease. I find it easier to do it myself.  Q Nay. All think they did shout earling the same in — I think it sounds to me like you keep asking the same in — I think it sounds to me like you keep asking the search filiates.  The case of the information contained in the tale that was the preparation for some of the information contained in your expert report?  A I cam't give you a better answer. I mean I — I think it sounds to me like you keep asking the search filiates.  The case of the past	2		2	
4   A Yeah, and that's what I don't remember, 5   performed for you. 7   A I don't think I can give you a full 8   list. I think that the -go ahead. 9   Q No, no, please, go ahead. 9   Q No, no, please, go ahead. 11   A Al right. So I think the category of things that I told you about before are the kinds of things that I told you about before are the kinds of things that I told you about before are the kinds of things that I they - that they did in this case. 12   I don't know i! I meaninge that. Help with - I already talked about editing - editing reports and - I can't think of another service they did, but that's what I can think of right now. 14   Q Okay. Did Medical Science Affiliates reports and - I can't think of another service they did, but that's what I can think of right now. 15   Q Okay. Did Medical Science Affiliates reports are search the scientific literature for you in preparation for some of the information contained in your expert report? 16   A I don't - I don't think they did any of that. I mean, they've - they've done searches in the past on other other topics, but I don't 16   A Well, let me be clear, when you talk or or whatever, but we're talking about this particular matter as you're asking these questions or   11   Q All right. So at that point in time   12   Q Okay. And bow would like that, and be hard only a particular matter as you're asking these questions or   12   Q Okay. And bow would like that, and be hard only a particular matter as you're asking these questions or   12   Q Okay. And bow would like that, and be hard on ord oary research of the peer-reviewed   12   2   2   2   2   2   2   2   2	3		3	· · · · · · · · · · · · · · · · · · ·
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The products and products and plant is actually not that helpful, because I - I find it easier to do it myself:	6	-		
B   Isist I think that the - go ahead.   9   Q   No, no, please, go ahead.   9   Q   Whether it was helpful or not, my question is, did Medical Science Affiliates do any question is, and the plant of t	7	-	7	
9 Q No, no, please, go ahead. 10 A All right. So I think the category of 11 things that I told you about before are the kinds of things that I told you about before are the kinds of things that they—that they did in this case. 14 phone call. Like if I was going to have a phone call, they would arrange that. Help with—I aleady talked about defing—editing reports and—I can't think of another service they did, 18 but that's what I can think of right now. 19 Q Okay. Did Medical Science Affiliates are research the scientific literature for you in preparation for some of the information contained in your expert report? 12 in your expert report? 13 I think they did any for this. 2 Q All right. So it's your testimony that in the talcum powder owarian cancer case, they did not do any research of the peer-reviewed 15 literature; is that correct? 15 A Vell, let me be clear, when you talk about this popicial rate as you're asking these questions in the past on other—other topics, but I don't 19 Q Well, that's a—that's a great point. 19 Q Well, that's a—that's a great point. 19 Q Well, that's a —that's a great point. 19 Q Well, that's a —that's a great point. 19 Q Well, that's a mover and ovarian cancer ases sometime in 2017. That's your testimony when testimony. 19 Q Now, what you've provided me are reports and devoration cancer cases sometime in 2017. That's your testimony when the summy out became capaged to work on talcum powder and ovarian cancer ase for his knew of the peer-reviewed 19 products and ovarian cancer, what I'm interested 19 known is whether or not, whether it was for this when you became engaged to work on talcum powder and ovarian cancer ases sometime in 2017. That's your testimony when the products and ovarian cancer, what I'm interested 19 known is whether or not, whether it was for this report, another croport, has Medical Science Affiliates on any testimony to the plaintiff that you've indicated you've—you've put them on your relatione fill the protest and ovarian cancer and the fill that a the point	8		8	
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	Page 166		Page 168
1	MS. BROWN: And, Counsel, here I'm going	1	Q Did you use for purposes of your expert
2	to interject, and to the extent your question	2	report any of the summaries that were that were
3	MS. PARFITT: Objection. Form.	3	conducted by Medical Science Affiliates that you
4	MS. BROWN: seeks to I'm	4	just spoke about?
5	instructing on privilege, which I'm allowed to do	5	A See, this is where I I don't know if
6	under the federal rules and under the	6	you're trying to confuse me or what, but
7	MS. PARFITT: If it's a privilege	7	Q No, I'm not.
8	issue	8	A Okay. So I just want to be clear,
9	MS. BROWN: let me do that.	9	because there aren't any summaries for this,
10	MS. PARFITT: it's certainly fine.	10	right.
11	MS. BROWN: Thanks. So my instruction	11	Q Okay.
12	here will be that, Doctor, you are not under the	12	A So and that's why I keep trying to
13	work-product privilege to disclose any	13	I just because there's a different answer for
14	correspondence you've had with MSA, unless it is	14	what what people have done in other matters and
15	something on which you rely for your opinions	15	what they've done in this matter. There aren't
16	here, and then of course, counsel is entitled to	16	any summaries that I'm aware of to to look at.
17	have that information.	17	Q All right. Did Medical Science
18	BY MS. PARFITT:	18	Affiliates help you write your expert report?
19	Q With that understanding, how do you	19	MS. BROWN: Objection to the form of the
20	answer the question?	20	question.
21	A Can you say it again because I think I	21	THE WITNESS: You know, "write" is a
22	lost it?	22	is a word that can mean a lot of things. They
23	Q Sure. Let me just have it read back to	23	helped me to to shape it, like to create the
24	you here.	24	the format for it and like edit out typos and
25	Has Medical Science Affiliates done any	25	things of that sort.
	Page 167		Page 169
1	summaries of any type of information for you or	1	BY MS. PARFITT:
2	provided any information for you on the talcum	2	Q Okay. Well, that has it means a lot
3	powder products and ovarian cancer cases?	3	of things as well. So let me ask you
4	MS. BROWN: Same instruction. If you're	l .	
	MS. DROWN. Same instruction. If you're	4	MS. BROWN: Counsel, just ask the
5		5	MS. BROWN: Counsel, just ask the question.
5 6	relying on anything they've done, of course,		question.
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6	relying on anything they've done, of course, please answer the question.  THE WITNESS: So if we're talking about	5 6	question.  MS. PARFITT: Counsel, I'm please.  MS. BROWN: You can't editorialize like
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6 7	relying on anything they've done, of course, please answer the question.  THE WITNESS: So if we're talking about cases because that's why I clarified before, we're not talking about this matter. We're	5 6 7 8	question.  MS. PARFITT: Counsel, I'm please.  MS. BROWN: You can't editorialize like
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	relying on anything they've done, of course, please answer the question.  THE WITNESS: So if we're talking about cases because that's why I clarified before, we're not talking about this matter. We're talking about ever in any in any case?  BY MS. PARFITT:  Q Ovarian cancer and talcum powder products.  A Oh, yeah. No, I understand the words. I'm just trying to make sure whether we're talking about like this this matter that we're talking about only or or beyond that.  Q Has has beyond that.  A So I'm going to say probably they have.  That if there are cases where there were like medical records, for example, although I don't	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	question.  MS. PARFITT: Counsel, I'm please.  MS. BROWN: You can't editorialize like that. It's a question and an answer.  BY MS. PARFITT:  Q Dr. Diette, what I would like to ask you is, when you say they helped shape your report, what do you mean they helped shape your report?  MS. BROWN: Objection.  THE WITNESS: What I just said I mean what I said after after that before.  BY MS. PARFITT:  Q Is every word in your expert report that you have there in front of you a word that you put in it?  MS. BROWN: Objection to the form.  THE WITNESS: Well, I don't know. I

43 (Pages 166 to 169)

that up. That's a good question.  A Yeah.  Q Are the opinions and the writings  contained in that report words that you selected?  A Oh, for sure. I mean like the opinions  and my - my summaries of things and is that what we're talking about?  Q No. No.  A We're not? All right.  Q The report is about let's see how  Many pages it's about 51 pages long, and the question I have, with the exception of quotes from other people, Dr. Diette, is every word in this report a word you chose to put in the report?  MS. BROWN: Objection to the form.  THE WITNESS: For sure, yes. Although like some of the words, for example, I think might come from one of those affidavits that we were and then pulled into this.  BY MS. PARFITT:  Q Okay. Well, then when you say "Medical Science Affiliates helped shape," I'm trying to get an understanding, what do you mean "shape"?  A It would look like a disaster if I did across, to have, you know, references look okay.  That I'm not good at. So the fact that this, in my view, looks like a professional product, that's what they that's what they that's what they that's what they be done for me is to make it look like that.  I Q Okay. There are multiple footnotes in your report to testimony of various experts that  I go A I tool do that.  I go A I don't I don't do that.	he of your ges?
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11 Q Okay. There are multiple footnotes in 11 report to anyone?	
	•
your report to testimony of various experts that 12 A I don't I don't do that.	
were retained by the plaintiff. 13 Q You don't dictate. Okay.	
14 A Yeah. 14 A No.	
Q Who prepared those footnotes? 15 Q Did you spend time on the phone w	th
MS. BROWN: Objection to the form. 16 anyone at MSA and discuss what your yo	
17 THE WITNESS: Staff somewhere, but 17 should look like?	
18 BY MS. PARFITT: 18 MS. BROWN: And again, I'm going	
19 Q I'm sorry. 19 instruct on work product, that you not revea	ur report to
20 A Staff. 20 substance of any discussions you had regard	to the
21 Q Staff? 21 drafts of this report. Whether or not there w	to the ing
22 A Yes. 22 conversation is an appropriate question to a	to the ing as a
Q What staff? 23 THE WITNESS: Sure.	to the ing as a
24 A I don't know which staff did it, but I 24 BY MS. PARFITT:	to the ing as a
25 mean like the if you say who prepared the 25 Q You did?	to the ing as a

	Page 174		Page 176
1	A Yes.	1	at MSA to help you get your report in order?
2	Q So you had a conversation	2	MS. BROWN: Objection to the form,
3	A Yes.	3	misstates the testimony.
4	Q about the substance of your report,	4	THE WITNESS: I don't recall the amount
5	correct?	5	of time. I mean whatever it took. Like some of
6	MS. BROWN: Objection to the form.	6	it might be like a two-minute conversation to say
7	THE WITNESS: Oh, no, you just you	7	like, you know, I want to move a section down or
8	said something else before that. What was the	8	something. Or, you know, Can you proofread that
9	question before?	9	particular paragraph and look for typos? And
10	MS. BROWN: Discuss what your report	10	things of that sort.
11	should look like.	11	BY MS. PARFITT:
12	THE WITNESS: Yeah, that's different.	12	Q Did any of the folks at MSA make any
13	BY MS. PARFITT:	13	suggestions with regard to the scientific or
14	Q Okay.	14	medical content of your report?
15	A You changed it to "substance." But I	15	MS. BROWN: Objection. Instruct not to
16	mean what it should look like is what I'm talking	16	answer on work product. You can discuss you
17	about. It was it should look good, right? And	17	can answer the question of whether you had any
18	so there should be like, you know, bold headings	18	conversations, the substance of which is
19	and there should be spaces where they belong.	19	privileged, and I'll instruct you not to answer.
20	Q What's the name of the contact person	20	MS. PARFITT: MSA is a third-party
21	you interfaced with at MSA?	21	contractor from what I'm understanding.
22	A My main one is Maddie Petta	22	MS. BROWN: No different than if he was
23	Pettenati.	23	working with a secretary to format this.
24	Q Okay. And how long have you worked with	24	Conversations about drafts of the report are
25	Maddie Pettenati?	25	privileged and will not be discussed.
	Page 175		Page 177
1	Page 175 A A couple of years.	1	BY MS. PARFITT:
1 2		1 2	BY MS. PARFITT:  Q Doctor, if you can answer the question.
	A A couple of years.		BY MS. PARFITT:
2	<ul><li>A Couple of years.</li><li>Q Okay. Do you work with anyone else over</li></ul>	2	BY MS. PARFITT:  Q Doctor, if you can answer the question.
2	A A couple of years.  Q Okay. Do you work with anyone else over at MSA to help you with your reports?	2 3	BY MS. PARFITT:  Q Doctor, if you can answer the question.  A Can you say it again? I'm sorry.
2 3 4	<ul><li>A A couple of years.</li><li>Q Okay. Do you work with anyone else over at MSA to help you with your reports?</li><li>A Oh, sure.</li></ul>	2 3 4	BY MS. PARFITT:  Q Doctor, if you can answer the question.  A Can you say it again? I'm sorry.  Q Sure. No worries. I'm just getting it
2 3 4 5	<ul> <li>A A couple of years.</li> <li>Q Okay. Do you work with anyone else over</li> <li>at MSA to help you with your reports?</li> <li>A Oh, sure.</li> <li>MS. BROWN: Objection to the form.</li> </ul>	2 3 4 5	BY MS. PARFITT:  Q Doctor, if you can answer the question.  A Can you say it again? I'm sorry.  Q Sure. No worries. I'm just getting it here.
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	Page 178		Page 180
1 add \$	85 when they bill somebody for my time.	1	and basically an amount. I don't have
2 Q	Who "they"?	2	A Like it
3 A	MSA.	3	Q it's been blacked out.
4 Q	"They," MSA?	4	A It doesn't matter. I can still
5 A	Yeah.	5	MS. BROWN: It's been redacted for work
6 Q	All right. So that I get it straight,	6	product.
7 you c	harge 400 \$400 for your time, correct?	7	THE WITNESS: I mean I can help you
8 A	Correct.	8	understand it if you want.
9 Q	And then your understanding is MSA	9	BY MS. PARFITT:
10 charg	es an additional \$85 to someone for their	10	Q All I really want to understand and get
11 assista	ance for you, correct?	11	a better understanding, Dr. Diette, is the types
12	MS. BROWN: Objection to the form, calls	12	of services that MSA provided you in order to
13 for sp	eculation.	13	file this prepare this report.
14	THE WITNESS: So it's I don't know	14	A Yeah, I I listed those.
15 I don'	t know how they break it down, because they	15	Q Okay. Do they help you with all of your
16 bill fo	r different things, like they bill for	16	expert reports?
	copying, they bill for some administrative	17	A In what?
-	separately. Whatever it is, it's their	18	Q Does MSA provide any type of service in
	ess model, and they they add that amount	19	any and all expert reports that you prepare in the
	hourly rate.	20	context of litigation?
	IS. PARFITT:	21	A No.
22 Q	How much did Medical Science bill for	22	Q Okay. Do you have another go-to service
-	vork, do you know?	23	to help you with the preparation of your expert
24	MS. BROWN: Objection. Calls for	24	services?
25 specu	lation.	25	MS. BROWN: Objection to form.
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	Page 179		Page 181
1	Page 179  THE WITNESS: You can tell if we look at	1	Page 181 THE WITNESS: No. I do stuff on my own
		1 2	
2 the	THE WITNESS: You can tell if we look at		THE WITNESS: No. I do stuff on my own
2 the 3 BY M 4 Q	THE WITNESS: You can tell if we look at the invoices.  IS. PARFITT:  Okay. They would bill the same number	2	THE WITNESS: No. I do stuff on my own as well.  BY MS. PARFITT:  Q All right. So there are cases where
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	Page 182		Page 184
1	before, but did MSA ever suggest any new sentences	1	Q And I'm not concerned about the format.
2	or study that you didn't previously insert in your	2	What I'm concerned about is the substance,
3	paper?	3	Dr. Diette, as you can appreciate.
4	A I doubt a new study. It could be I	4	MS. BROWN: Objection.
5	mean we worked we worked pretty hard to make	5	BY MS. PARFITT:
6	sure that I have the full list of studies, you	6	Q And so what I'm trying to to get some
7	know, acknowledged, and so if there was something	7	clarity here is that, other than perhaps providing
8	I left off I mean I don't remember this	8	you a study that you may have omitted from your
9	specifically for this, but that would be a normal	9	report, is there anything else that falls more in
10	practice, right, like which is to say, you know,	10	the substantive area that they provided and
11	Oh, I saw in your list of papers that there's a	11	offered for you?
12	Smith paper, should that be on here? Not them	12	A I I think I've answered as best I
13	going out and saying, Oh, I found a Smith paper,	13	can.
14	would you like that on there?	14	Q Well, why don't we let's talk about
15	Q But they might looked at yours and say,	15	your contact with J&J. When did they first reach
16	You you missed a study. Fair?	16	out to you to talk with you about being an expert
17	A Oh, sure.	17	to defend them in these lawsuits?
18	MS. BROWN: Objection to the form.	18	MS. BROWN: Objection to the form of the
19	THE WITNESS: Yeah.	19	question.
20	BY MS. PARFITT:	20	THE WITNESS: So they never asked me to
21	Q Okay. And they might look at your	21	defend them. They they asked me to evaluate
22	report and say, You missed	22	the epidemiologic literature.
23	I think what I'm getting at, Dr. Diette,	23	And just to be clear, because it seemed
24	you described their efforts as generally	24	like it was tripping us up before trying to talk
25	editorial. Is that fair?	25	about this, when I talk about J&J, it's lawyers
	Page 183		Page 185
1	MS. BROWN: Objection to the form.	1 1	
_		1	that are working with J&J as opposed to somebody
2	THE WITNESS: I would say administrative	2	that are working with J&J as opposed to somebody from J&J per se. And so I'll leave it to you guys
3			
	THE WITNESS: I would say administrative	2	from J&J per se. And so I'll leave it to you guys
3	THE WITNESS: I would say administrative and editorial.	2 3	from J&J per se. And so I'll leave it to you guys to sort out what that what that means.
3 4	THE WITNESS: I would say administrative and editorial. BY MS. PARFITT:	2 3 4	from J&J per se. And so I'll leave it to you guys to sort out what that what that means. BY MS. PARFITT:
3 4 5	THE WITNESS: I would say administrative and editorial.  BY MS. PARFITT:  Q Okay. So we can agree that it's both administrative and editorial?  MS. BROWN: Objection to the form.	2 3 4 5	from J&J per se. And so I'll leave it to you guys to sort out what that what that means.  BY MS. PARFITT:  Q Fair enough.  A But but the first time would have
3 4 5 6	THE WITNESS: I would say administrative and editorial.  BY MS. PARFITT:  Q Okay. So we can agree that it's both administrative and editorial?	2 3 4 5 6	from J&J per se. And so I'll leave it to you guys to sort out what that what that means.  BY MS. PARFITT:  Q Fair enough.  A But but the first time would have
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3 4 5 6 7 8	THE WITNESS: I would say administrative and editorial.  BY MS. PARFITT:  Q Okay. So we can agree that it's both administrative and editorial?  MS. BROWN: Objection to the form.  THE WITNESS: Correct.	2 3 4 5 6 7 8	from J&J per se. And so I'll leave it to you guys to sort out what that what that means. BY MS. PARFITT: Q Fair enough. A But but the first time would have been a lawyer back in 2017 who asked if I would be interested in reviewing the epidemiologic
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3 4 5 6 7 8 9	THE WITNESS: I would say administrative and editorial.  BY MS. PARFITT:  Q Okay. So we can agree that it's both administrative and editorial?  MS. BROWN: Objection to the form.  THE WITNESS: Correct.  BY MS. PARFITT:  Q And as I appreciate, in addition to	2 3 4 5 6 7 8 9	from J&J per se. And so I'll leave it to you guys to sort out what that what that means.  BY MS. PARFITT:  Q Fair enough.  A But but the first time would have been a lawyer back in 2017 who asked if I would be interested in reviewing the epidemiologic literature.  Q Who was that lawyer?
3 4 5 6 7 8 9 10	THE WITNESS: I would say administrative and editorial.  BY MS. PARFITT:  Q Okay. So we can agree that it's both administrative and editorial?  MS. BROWN: Objection to the form.  THE WITNESS: Correct.  BY MS. PARFITT:  Q And as I appreciate, in addition to perhaps providing you with a study or two that	2 3 4 5 6 7 8 9 10	from J&J per se. And so I'll leave it to you guys to sort out what that what that means.  BY MS. PARFITT:  Q Fair enough.  A But but the first time would have been a lawyer back in 2017 who asked if I would be interested in reviewing the epidemiologic literature.  Q Who was that lawyer?  A Jonathan Cooper.  Q Okay. Now, at the time that Jonathan or Jonathan Cooper contacted you, did you were
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	THE WITNESS: I would say administrative and editorial.  BY MS. PARFITT:  Q Okay. So we can agree that it's both administrative and editorial?  MS. BROWN: Objection to the form.  THE WITNESS: Correct.  BY MS. PARFITT:  Q And as I appreciate, in addition to perhaps providing you with a study or two that or three, however number, that you might have omitted, is there anything substantive like that that they did for you for purposes of your expert report?  A I insist that they don't. I tell them that I don't want any intellectual input into the to the stuff that we're working on. Like I don't want their I don't even know if they have opinions, but I don't want their opinions. I literally want this to look like a professional product, and I want to get it done in a way that I	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	from J&J per se. And so I'll leave it to you guys to sort out what that what that means.  BY MS. PARFITT:  Q Fair enough.  A But but the first time would have been a lawyer back in 2017 who asked if I would be interested in reviewing the epidemiologic literature.  Q Who was that lawyer?  A Jonathan Cooper.  Q Okay. Now, at the time that Jonathan or Jonathan Cooper contacted you, did you were you working with MSA?  A Obviously, because I said ten years, and, you know, this was 2017.  Q Okay. Did you share with Jonathan Cooper that you worked with this MSA company to help you prepare your expert reports?  A He knew about it already, because I think the reason he reached out to me is because he was impressed with the work I had done in

	Page 186		Page 188
1	done, when he let me explore that a little bit.	1	Q Okay. Have they ever listed you on some
2	When he called you, did you tell him	2	type of website as a consultant for legal
3	that you had previously worked with MSA to help	3	purposes?
4	you with your expert reports?	4	A Well, I see
5	A I didn't have to.	5	MS. BROWN: Objection to the form,
6	Q He knew that.	6	calls for speculation.
7	A Yes.	7	THE WITNESS: Mr. Finch is here and
8	Q Okay. How would Mr. Cooper have known	8	he
9	that you worked with MSA before?	9	THE REPORTER: Excuse me.
10	MS. BROWN: Objection to the form, calls	10	THE WITNESS: Oh, sorry.
11	for speculation.	11	MS. BROWN: Objection to the form, call
12	MR. LOCKE: Objection.	12	for speculation. Thank you.
13	BY MS. PARFITT:	13	THE WITNESS: Mr. Finch flashed
14	Q If you know. Seems like you know.	14	something up at a trial to suggest that they had,
15	A Oh, I do. We had he and I had worked	15	but that wasn't an advertisement for me. It was a
16	together on other cases.	16	list of somebody who had credentials that were
17	Q Okay. What other cases did you work	17	similar to mine.
18	with Mr. Cooper on?	18	BY MS. PARFITT:
19	A They were asbestos-related cases with	19	Q Okay. Well, my question is, have are
20	plastic or phenolics, like electrical equipment.	20	you aware of whether or not Medical Science
21	Q Okay. And in those cases that you	21	Affiliates has ever advertised your name out in
22	worked with Jonathan on or Mr. Cooper on, did	22	the the community as someone
23	you utilize the services of MSA as well to help	23	MS. BROWN: Same objection
24	you prepare your expert report in those cases?	24	BY MS. PARFITT:
25	A I did.	25	Q who was a specialist in pulmonology
	Page 187		Page 189
1	Q Okay. Has MSA reached out to you and	1	medicine?
2	engaged or asked if you would engage in assisting	2	MS. BROWN: Same objection.
3	them on any other projects currently?	3	THE WITNESS: I'm not aware that they
4	A What do you mean by "currently"?	4	advertise.
5	Q Well, are you working with MSA on any	5	BY MS. PARFITT:
6	other projects other than the talcum powder	6	Q Okay. So are there times that Medical
7	products and ovarian cancer?	7	Science Affiliates reaches out to you and says,
8	A Yes.	8	Dr. Diette, we want you to do a medical a
9	Q What projects?	9	scientific review for us on a topic?
10	MS. BROWN: And again, Doctor, to the	10	A Never.
11	extent that a confidentiality agreement doesn't	11	Q Okay. They've never done that. You've
12	prevent you from disclosing other work that you're	12	never provided that service for them.
13	doing, you can answer the question.	13	A They they don't ask me to do work for
14	THE WITNESS: Some cases that relate to	14	them.
15	asbestos and other chemical-related cases.	15	Q Okay. Do their clients ask you to do
16	BY MS. PARFITT:	16	work for them?
17	Q Okay. Was there a time when you,	17	A Of course, that's where we started,
18	instead of receiving services from MSA, you	18	right, from ten years ago.
19	provided services to MSA as an affiliate expert?	19	Q Right. And that's what I'm trying to
20	MS. BROWN: Objection to the form of the	20	figure out.
21	question.	21	MS. BROWN: Let him finish. I don't
22	THE WITNESS: I know they have that word	22	think he was done.
23	"affiliate" in their name. I don't know what that	23	THE WITNESS: No, that was that was
24	means. But I don't provide services to them.	24	the description of what I was saying, like how
25	BY MS. PARFITT:	25	the the first time that I met them was that
		23	the first time that I met them was that
		1	

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	Page 190		Page 192
1	they there was some, you know, group that	1	Q So you never work for MSA; you always
2	wanted an epidemiologic review, and they were	2	work for a corporate client?
3	trying to figure out if there were local	3	MR. LOCKE: Objection.
4	epidemiologists that could take on a task like	4	MS. BROWN: Objection to the form of the
5	that, and so that's the way it worked.	5	question.
6	BY MS. PARFITT:	6	THE WITNESS: So I've never worked for
7	Q Okay. So I now get	7	MSA.
8	MS. BROWN: He is not done.	8	BY MS. PARFITT:
9	BY MS. PARFITT:	9	Q Who pays your bills? Law firms?
10	Q Are you done, Doctor? I thought you	10	MS. BROWN: Objection to the form.
11	were.	11	THE WITNESS: So
12	A I'll be done.	12	MS. BROWN: What bills? What are you
13	Q Okay. So if I appreciate this	13	talking about?
14	structure, so we can move on, a client, some	14	BY MS. PARFITT:
15	company can reach out to Medical Science	15	Q Who pays your bills for doing services
16	Affiliates and say, We need some work done and	16	at the request of MSA?
17	research done on a particular area. Will you do	17	MS. BROWN: Objection to the form.
18	that for me?	18	BY MS. PARFITT:
19	Medical Science Affiliates will say,	19	Q Anybody?
20	Yes, we can. And then Medical Science Affiliates	20	MS. BROWN: Objection. Can we let's
21	reaches out to people like you?	21	have one question and let him answer.
22	MS. BROWN: Objection to the form.	22	Go ahead.
23	THE WITNESS: So I don't know I don't	23	BY MS. PARFITT:
24	know when they say, Yes, we can. Like I don't	24	Q And I'll tell you the reason I'm asking,
25	know, for example like their I don't know	25	Dr. Diette.
	Page 191		
1	what their size is, but they may say, Yes, we can,	1	MS. BROWN: No, no, no, no. You ask the
2	and just do it themselves. Right. They have	2	question, he answers. We don't need to know why
3	other people that I don't work with that work	3	you're asking the question.
4	there.	4	MS. PARFITT: Excuse me.
5	I'm just saying, like you're asking the	5	MS. BROWN: It's improper. You're not
6	question, so it's like so if somebody calls	6	going to give a speech, Counsel.
7	them and says, Can you do this work? They may	7	BY MS. PARFITT:
8	well say, Yes, we can do it. They may or may not	8	Q Dr. Diette, we has there ever been a
9	need a content expert or methodologic expert to do	9	chance or an opportunity where you have reached
10	it. So it I assume it depends, but I'm I'm	10	out to MSA on your own, and say, A client that
11	not familiar with their entire business operation.	11	doesn't work or do business with you, MSA, has
12	BY MS. PARFITT:	12	asked me to do a report. Can you help me?
13	Q Okay. All I'm trying to find out is	13	A Yes.
14	is who comes to who, and from what I understand	14	Q Okay. So that's one scenario, correct?
15	your testimony is, a client will reach out to MSA	15	A Correct.
16	and say, We have a project. MSA will determine	16	Q It's some other client has some other
	whether or not someone someone's expertise is	17	individual or entity has reached out to you and
17	needed in order to complete that job, and then MSA	18	said, Dr. Diette, I would like to engage your
17 18		19	expertise in the legal context. Fair?
	reaches out to you. Is that fair?	+/	empercise in the legar content. Tan.
18	reaches out to you. Is that fair?  MR. LOCKE: Objection.	20	-
18 19	MR. LOCKE: Objection.		MS. BROWN: Objection to the form.
18 19 20	MR. LOCKE: Objection. MS. BROWN: Objection. Speculation.	20	-
18 19 20 21	MR. LOCKE: Objection.  MS. BROWN: Objection. Speculation.  THE WITNESS: I like the answer I just	20 21	MS. BROWN: Objection to the form. THE WITNESS: Or the epidemiologic
18 19 20 21 22	MR. LOCKE: Objection. MS. BROWN: Objection. Speculation.	20 21 22	MS. BROWN: Objection to the form. THE WITNESS: Or the epidemiologic context, but in some context.
18 19 20 21 22	MR. LOCKE: Objection.  MS. BROWN: Objection. Speculation.  THE WITNESS: I like the answer I just	20 21 22	MS. BROWN: Objection to the form. THE WITNESS: Or the epidemiologic context, but in some context.

49 (Pages 190 to 193)

		1	
	Page 194		Page 196
1	MS. BROWN: Objection to the form.	1	conflicts checks?
2	THE WITNESS: Something like that, yeah.	2	MS. BROWN: Objection. Speculation.
3	BY MS. PARFITT:	3	Engaged by who?
4	Q Okay. That's one scenario.	4	BY MS. PARFITT:
5	Another scenario is when a corporate	5	Q When you're engaged by a client, who
6	client, for instance, engages the services of MSA	6	does the conflict
7	to do a project and a particular expertise is	7	MS. BROWN: Same
8	needed, and MSA then reaches out to folks like	8	BY MS. PARFITT:
9	yourself or folks in other medical specialties.	9	Q conflicts checks for you?
10	Fair?	10	MS. BROWN: Same objection.
11	MS. BROWN: Objection. Speculation.	11	THE WITNESS: I don't know that anybody
12	THE WITNESS: So I'm not a lawyer,	12	does conflicts checks. I mean if there is
13	right. So I'm trying to listen carefully to the	13	somebody, I'm not aware of who that is. If it
14	words that you're using, and when you say they	14	comes up, people will ask me sometimes if I have a
15	reach out and they retain MSA, I I actually	15	conflict of interest. Sometimes I'll see a
16	don't know if that's actually what happens, right.	16	complaint, you know, and be asked to look at, you
17	So I gave you an example that	17	know, the names on the complaint.
18	BY MS. PARFITT:	18	It all depends, but I I don't even
19	Q Okay.	19	know if I know what a conflict checks is, I mean
20	A they might retain MSA for their own	20	if that's a technical term. It's only been
21	purposes, and nobody else gets involved. If like,	21	it's only been done the way I'm describing, which
22	for example, in this case when Jonathan Cooper	22	somebody will say to me like, you know, Do you
23	reached out, he wanted to work with me, and MSA	23	have any conflict of interest?
24	provided the support services for me to get that	24	BY MS. PARFITT:
25	work done. So I I have no idea whether he	25	Q Okay. You prepared two affidavits that
	Page 195		Page 197
1	retained MSA per se. I mean that's that's	1	I'm aware of, one in the Ingham case and one in
2	something for lawyers to kind of sort through.	2	the Forrest. Do you recall doing that back in
3	Q Well, did Jonathan Cooper go to you	3	2018?
4	directly or did Jonathan Cooper go to MSA?	4	A I do.
5	MS. BROWN: Objection to the form.	5	Q Okay. Are you aware of any other
6	You can answer if you know.	6	affidavits you prepared in 2018 other than the
7	THE WITNESS: It was kind of both. I	7	Ingham and the Forrest?
8	mean I think we we were talking about something	8	A I don't think so. But I mean if you
9	else one day, and he asked if I would be	9	have one, I would be glad to help confirm it, but
10	interested in this.	10	I can't recall one off the top of my head.
11	BY MS. PARFITT:	11	Q Fair enough. How much did you charge
12	Q Okay. And did Jonathan Cooper then	12	for preparation of the Ingham affidavit?
13	reach out to MSA as well?	13	MS. BROWN: Objection to the form.
14	MS. BROWN: Objection. Speculation.	14	THE WITNESS: I don't remember.
15	BY MS. PARFITT:	15	BY MS. PARFITT:
16	Q You said both. That's why I'm asking.	16	Q More than 50,000?
17	A Yeah, yeah, I mean	17	MS. BROWN: Same objection.
18	MS. BROWN: Same objection.	18	THE WITNESS: So I guess it depends upon
19	THE WITNESS: I don't know how that part	19	when we're talking about like me, you know,
20	worked, I mean, but but it was pretty clear	20	because earlier you were lumping together, you
21	that it was such a big volume of work, that if I	21	know, services that MSA charges for and gets paid
22	was going to do it with him that I was going to	22	for. So I don't remember what what part I got.
23	use MSA's services.	23	It wouldn't it wouldn't have taken \$50,000
24	BY MS. PARFITT:	24	worth of my time to prepare, you know, the
25	Q When you're engaged, who does the	25	affidavit, I don't think. And in part, because,
-	Z J 25.74 dr.BuBda, 110 does the		part, occasio,

50 (Pages 194 to 197)

	Page 198		Page 200
1	you know, the input for that was stuff I was	1	products and ovarian cancer.
2	already, you know, reading and interpreting	2	And the question I have is, in any
3	otherwise.	3	context, when the topic of interest is talcum
4	BY MS. PARFITT:	4	powder products and ovarian cancer, have you ever
5	Q All right. How much did you charge for	5	been asked by MSA to do any work that's
6	the Forrest report?	6	non-pulmonary, other than the ovarian cancer
7	MS. BROWN: Objection to the form.	7	cases?
8	THE WITNESS: The same same answer.	8	A Related
9	I don't know. And in fact, the Forrest report, if	9	MR. LOCKE: Objection.
10	it came second, probably not very much because I	10	THE WITNESS: Related to talcum powder?
11	think it's mostly derivative from the first. I	11	BY MS. PARFITT:
12	mean I try I'm not trying to just, you know,	12	Q Related to anything.
13	create work to create it. Like if there's	13	A Well, wait a minute. No, because so,
14	something I that I like the way it reads, I try	14	first of all, you said has MSA asked me to do it.
15	to use it again.	15	Like they don't ask me to do stuff. Like they
16	BY MS. PARFITT:	16	it's the relationship we described before is
17	Q Okay. Are you aware, having actually	17	what it is. So if it's more general about are
18	prepared both of those affidavits, they are	18	there other cases
19	virtually the same affidavit? Would that surprise	19	Q Yeah.
20	you?	20	A and when you say non-pulmonary, you
21	MS. BROWN: Objection to the form.	21	know, there are cases I've been involved in that
22	THE WITNESS: I hope they are. I mean	22	have nothing do with talcum powder that are
23	that that was the intent.	23	non-pulmonary.
24	BY MS. PARFITT:	24	So I'm just trying to figure out,
25	Q Okay. Other than the ovarian cancer/	25	there's a lot of different angles to what to
1	Page 199 talcum powder cases, have you been engaged by	1	Page 201 what you're asking.
2	anyone else for opinions on a non-pulmonary issue?	2	Q Sure.
3	MS. BROWN: Objection to the form.	3	A Are you talking about talcum powder
4	THE WITNESS: Related to?	4	cases that are related to something other than
5	BY MS. PARFITT:	5	ovarian cancer, and something other than a
6	Q Your work with MSA.	6	pulmonary
7	A No, but you said it sounded like		÷
		7	Q I'll simplify it. Have you ever
8	there's something missing from the question.	7 8	Q I'll simplify it. Have you ever prepared a report in a let me do it this way.
8 9			Q I'll simplify it. Have you ever prepared a report in a let me do it this way.  Talcum powder products and ovarian
9 10	there's something missing from the question.  Q Sure. Let me let me ask it again.  Okay.	8 9 10	Q I'll simplify it. Have you ever prepared a report in a let me do it this way.  Talcum powder products and ovarian cancer have nothing to do with pulmonary medicine,
9 10 11	there's something missing from the question.  Q Sure. Let me let me ask it again.  Okay.  Other than this case involving ovarian	8 9	Q I'll simplify it. Have you ever prepared a report in a let me do it this way.  Talcum powder products and ovarian cancer have nothing to do with pulmonary medicine, correct?
9 10 11 12	there's something missing from the question.  Q Sure. Let me let me ask it again.  Okay.  Other than this case involving ovarian cancer and talcum powder products, have you been	8 9 10 11 12	Q I'll simplify it. Have you ever prepared a report in a let me do it this way.  Talcum powder products and ovarian cancer have nothing to do with pulmonary medicine, correct?  MS. BROWN: Objection to the form. Are
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9 10 11 12 13 14 15 16 17 18 19 20 21 22	there's something missing from the question.  Q Sure. Let me let me ask it again.  Okay.  Other than this case involving ovarian cancer and talcum powder products, have you been asked and or requested by anyone for your opinions on a topic that was something other than non-pulmonary?  MS. BROWN: Objection. Do you mean MS. PARFITT: That was non-pulmonary.  MS. BROWN: to exclude Ingham and the other? When you say "this case," do you mean just the MDL?  MS. PARFITT: Yeah.  BY MS. PARFITT:	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q I'll simplify it. Have you ever prepared a report in a let me do it this way.  Talcum powder products and ovarian cancer have nothing to do with pulmonary medicine, correct?  MS. BROWN: Objection to the form. Are we abandoning inhalation as a theory of  MS. PARFITT: No, we're not, no.  MS. BROWN: Okay.  THE WITNESS: Then no. I mean, no, meaning that if that's a theory, then that certainly has something to do with pulmonary medicine.  BY MS. PARFITT:  Q Okay. And I think what I'm really driving at is, it looks as though your focus for

	Page 202		Page 204
1	MR. LOCKE: Objection.	1	anything
2	THE WITNESS: My focus	2	Q Do you want to take
3	BY MS. PARFITT:	3	A No, I'm just wondering. Not
4	Q Focus and research	4	necessarily, but if it's
5	MS. BROWN: Objection.	5	MS. MILLER: This would be a good time
6	BY MS. PARFITT:	6	for lunch.
7	Q for preparation of expert legal	7	THE WITNESS: Yeah, that's what I'm
8	reports.	8	wondering, just if it's going to be
9	MS. BROWN: Objection to the form.	9	MS. BROWN: Yeah, it's up to you. If
10	THE WITNESS: I I'm either not	10	you want to break, counsel will give you a break.
11	hearing you well or I think things are getting	11	MS. PARFITT: Whatever you want to do.
12	jumbled.	12	Do you want to take a break now?
13	BY MS. PARFITT:	13	THE WITNESS: It would be nice to to
14	Q Okay.	14	get a snack, and
15	A And I	15	MS. PARFITT: You want to take a half
16	Q Probably the the latter.	16	hour and grab
17	A No, and I apologize.	17	THE WITNESS: Would that be okay?
18	Q It's probably me.	18	MS. PARFITT: That's totally fine, yep.
19	A I'm not trying to give you a hard time.	19	THE VIDEOGRAPHER: The time is 12:08
20	I just mean that what I what I heard earlier	20	p.m., and we are going off the record.
21	is am I working on something with talcum powder	21	(Lunch recess.)
22	other than ovarian cancer or other than ovarian	22	THE VIDEOGRAPHER: The time is 12:43
23	cancer and something that isn't part of the lung?	23	p.m., and we're back on the record.
24	Is that it?	24	BY MS. PARFITT:
25	Q Are you preparing expert reports on a	25	Q Good afternoon, Dr. Diette.
	Page 203		D 20F
			Page 205
1	topic area other than talcum powder products and	1	A Good afternoon.
2	topic area other than talcum powder products and ovarian cancer currently?	1 2	<ul><li>A Good afternoon.</li><li>Q All right, Dr. Diette, I'd like to focus</li></ul>
2 3	topic area other than talcum powder products and ovarian cancer currently?  MS. BROWN: Objection. He's not		A Good afternoon.  Q All right, Dr. Diette, I'd like to focus for a little bit about your actually your
2 3 4	topic area other than talcum powder products and ovarian cancer currently?  MS. BROWN: Objection. He's not answering questions about reports that have not	2 3 4	A Good afternoon.  Q All right, Dr. Diette, I'd like to focus for a little bit about your actually your expert report and hopefully get to your opinions
2 3 4 5	topic area other than talcum powder products and ovarian cancer currently?  MS. BROWN: Objection. He's not answering questions about reports that have not been served in cases	2 3 4 5	A Good afternoon.  Q All right, Dr. Diette, I'd like to focus for a little bit about your actually your expert report and hopefully get to your opinions here soon.
2 3 4 5 6	topic area other than talcum powder products and ovarian cancer currently?  MS. BROWN: Objection. He's not answering questions about reports that have not been served in cases  MS. PARFITT: Understood.	2 3 4 5 6	A Good afternoon.  Q All right, Dr. Diette, I'd like to focus for a little bit about your actually your expert report and hopefully get to your opinions here soon.  It's fair to say that this report is
2 3 4 5 6 7	topic area other than talcum powder products and ovarian cancer currently?  MS. BROWN: Objection. He's not answering questions about reports that have not been served in cases  MS. PARFITT: Understood.  MS. BROWN: where he's not a	2 3 4 5 6 7	A Good afternoon.  Q All right, Dr. Diette, I'd like to focus for a little bit about your actually your expert report and hopefully get to your opinions here soon.  It's fair to say that this report is this expert report is not a report that you
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52 (Pages 202 to 205)

## Case 3:16-md-02738-MAS-RLS Document 9737-8 Filed 05/07/19 Page 178 of 516 PageID: 38878 Gregory B. Diette, M.D.

	Page 206		Page 208
1	case. So I don't know whether that's going to,	1	to say that that is your signature on the on
2	you know, spur some other thought, you know, from	2	the front page, Gregory Diette?
3	the other other experts who are testifying, but	3	A Yes, it is.
4	aside from that, then this should otherwise be	4	Q And you completed that on February 25th,
5	complete.	5	2019, correct?
6	BY MS. PARFITT:	6	A Exactly right.
7	Q And obviously if you see something,	7	Q Okay. And it would also is it also
8	testimony that causes you to change your opinions,	8	fair to say that the opinions contained in this
9	you will let me know, correct?	9	report are not the opinions of Johns Hopkins
10	MS. BROWN: Form.	10	University?
11	THE WITNESS: I will.	11	A Not as far as I know. I mean they're
12	BY MS. PARFITT:	12	literally just mine.
13	Q All right. Dr. Diette, on the front of	13	Q Have you shared these opinions with any
14	your report it says "Expert Report of Gregory	14	of the other members of the Johns Hopkins
15	Diette, MD, MHS, For General Causation Daubert	15	community?
16	Hearing." Did you write that?	16	A No.
17	A Not this page, no.	17	Q All right. Did you run the opinions
18	Q All right. Who wrote that?	18	that you have by any of the staff or your
19	MS. BROWN: Objection to the form.	19	superiors at Johns Hopkins?
20	THE WITNESS: I I don't know	20	MS. BROWN: Objection to the form.
21	literally. I think this came from the law firm as	21	THE WITNESS: No.
22	a cover page for me to to sign.	22	BY MS. PARFITT:
23	BY MS. PARFITT:	23	Q Okay. Aside from this expert report and
24	Q You've testified both in general	24	the opinions retained herein, have you shared your
25	causation case as a general causation witness	25	opinions with anyone else outside of the Johns
	Page 207		Page 209
1	and as well as a specific causation witness,	1	Hopkins community, regulatory or scientific
	correct?	1	
2	00110001	2	bodies?
2	A Generally speaking, like in legal cases?	2 3	bodies?  MS. BROWN: Objection to the form.
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3 4 5 6 7	<ul> <li>A Generally speaking, like in legal cases?</li> <li>Q Correct.</li> <li>A Yes, I have.</li> <li>Q All right. So you understand the difference.</li> <li>A I hope so, yeah.</li> <li>Q Okay. Have you actually testified in an</li> </ul>	3 4 5 6 7	MS. BROWN: Objection to the form. THE WITNESS: No. You mean other that the lawyers and BY MS. PARFITT: Q Correct, other than your lawyers.
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53 (Pages 206 to 209)

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3	1	front of you?	1	Q Okay. And if you would turn be so
From the contains the bases for your opinions as well?	2	A I do. Thank you.	2	kind to turn to the last page of the report,
5 Well? 6 A Yes. 7 Q All right. And is it fair the —do you know whether or not this report has answered all the questions that J& asked you to answer for them? 10 them? 11 MS. BROWN: Objection. Lacks 12 foundation. 12 THE WITNESS: Well, I think there's only on question, right? 14 one question, right? 15 BY MS. PARFITT: 16 Q And what was that question? 17 MS. BROWN: Wait. Let him finish. 18 BY MS. PARFITT: 19 Q What was that question? 20 A P ms orry. So the question was —was really about whether or not the —what does the epidemiologic evidence say about the relationship between talcum powder and ovarian cancer. 21 report, page 2, and I believe — 22 poor the ELMO here. 23 (Counsel conferring) 24 MS. PARFITT: I guess we won't put it up on the ELMO here. 25 BY MS. PARFITT: I guess we won't put it up on the ELMO here. 36 (Counsel conferring) 47 MS. PARFITT: I guess we won't put it up on the ELMO here. 48 MS. PARFITT: I guess we won't put it up on the ELMO here. 49 G Ald we'll go ahead and put that up on the ELMO. 4 Vep. The whole thing? 40 Junder 'Roenclusion'' or the — 41 A I think ther's only of the ELMO. 4 Vep. The whole thing? 4 I gualifications and my extensive review of the available epidemiology studies and scientific treature, that there is not sufficient in the without the available epidemiology studies and scientific treature, that there is not sufficient is not sufficient in the without the available epidemiology studies and scientific treature, that there is not sufficient is not sufficient the available epidemiology studies and scientific treature, that there is not sufficient in the available epi	3	Q Okay. Is it fair to say that your	3	page 51.
6 A Yes. 7 Q All right. And is it fair the do you 8 know whether or not this report has answered all 10 the questions that J&J asked you to answer for 11 the properties of them? 11 MS. BROWN: Objection. Lacks 12 foundation. 12 foundation. 13 THE WITNESS: Well, I think there's only 14 one question, right? 15 BY MS. PARFITT: 16 Q And what was that question? 17 MS. BROWN: Wait. Let him finish. 18 BY MS. PARFITT: 19 Q What was that question? 20 A I'm sorry. So the question was was 21 really about whether or not the what does the 22 epidemiologic evidence say about the relationship 23 between talcum powder and ovarian cancer. 24 Q All right. So let's turn to your 25 report, page 2, and I believe 26 BY MS. PARFITT: I guess we won't put it up 27 on the ELMO here. 28 G Counsel conferring.) 39 WS. PARFITT: I guess we won't put it up 30 the ELMO here. 31 G Okay. And I know you what we'll have 32 mended you please read, if you will, that first 34 Sentence. 35 Counsel conferring.) 46 MS. PARFITT: I guess we won't put it up 47 on the ELMO here. 48 BY MS. PARFITT: I guess we won't put it up 49 the ELMO here. 40 Looking at the Summary of Opinions, 41 would you please read, if you will, that first 41 sentence. 42 Q Looking at the Summary of Opinions, 43 would you please read, if you will, that first 44 A Yep, sure. 45 Page 211 46 A 'The body of'? 47 A 'The body of relevant epidemiological 48 A Yep, sure. 49 C Juder's Summary of Opinions. 40 Under 'Summary of Opinions." 41 A Yep, sure. 41 A Yep, sure. 42 G Older's Summary of Opinions. 43 A 'The body of relevant epidemiological 44 A Yep, sure. 45 The body of relevant epidemiological 46 evidence does not support a causal connection 47 between perineal use of falcum powder products." 48 BY MS. PARFITT: Let me show you, Counsel, what we what we'll have marked as Exhibit 12. 48 The body of relevant epidemiological 49 The body of relevant epidemiological 40 A 'The body of relevant epidemiological 41 A Yep, sure. 42 A 'The body of relevant epidemiological 43 A Cleft rea	4	report contains the bases for your opinions as	4	A Okay.
A At the	5	well?	5	Q And again, if you would read the first
8 know whether or not this report has answered all the questions that J&J asked you to answer for them?	6	A Yes.	6	paragraph.
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16	14	one question, right?	14	paragraph or first sentence.
17	15	BY MS. PARFITT:	15	A First sentence. Oh, okay. Yep.
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	Page 214		Page 216
1	I've seen.	1	up here, and I'm going to doc and I'm going to
2	Q Okay. Fair.	2	go ahead and make a notation as you talk, and
3	Now, this is from the Sidney Kimmel	3	we're going to put your initials by that which you
4	Comprehensive Cancer Center, correct?	4	agree or don't agree, or that which resonates with
5	A That's right.	5	you or that which does not.
6	Q And it's entitled "Risk Factors Risk	6	So give me a moment. Hang with me,
7	Factors" excuse me and Symptoms." Do you	7	okay?
8	see that?	8	A Yeah.
9	A I do.	9	Q All right.
10	Q All right. And if you and this is for	10	MS. BROWN: Objection to the exercise.
11	ovarian cancer, you see that?	11	THE WITNESS: And I will say I mean I
12	On the second line, "ovarian cancer," it	12	wasn't you know, that I don't necessarily
13	talks	13	I'm not going to be able to necessarily agree or
14	A Yes.	14	literally disagree with each one of these, but
15	Q Okay. Now, what I'd like you to do is	15	I'll just try to comment on what they what they
16	turn to the second page, and there is a risk	16	have here and what it says to me.
17	factor listed, amongst others. Do you see that?	17	BY MS. PARFITT:
18	A I do.	18	Q All right. Well, why don't we take the
19	Q And it says "Talcum Powder and	19	first one.
20	Asbestos." Do you see that?	20	"Habitual use of talcum powder on the
21	A Yes.	21	genital area may increase the risk for ovarian
22	Q All right. Would you read that, please.	22	cancer, but the evidence is not strong."
23	A "Habitual use of talcum powder on the	23	A Yeah.
24	genital area may increase the risk for ovarian	24	Q Do you agree with that?
25	cancer, but the evidence is not strong. A study"	25	A I agree that the evidence is not strong.
	Dama 215		Dama 217
1	Page 215	,	Page 217
1 2	the first sentence or the whole thing?  Q The whole thing.	1 2	And and I think it's a it's a pretty nuanced
3		3	statement. It may increase, which leaves open
4	A Yep. "A study at Harvard Medical School found that using talc this way doubled the risk,	4	that it may not increase. So I think it's a it's a balanced statement. And their inclusion of
5	but other studies found no increased risk. Some	5	the evidence not being strong is what resonates
6	researchers believe that tale may be carcinogenic	6	with me.
7	because it contains particles of asbestos, a known	7	Q Okay. Do you disagree, though, that
8	carcinogen. It's been shown that rates of ovarian	8	it do you agree or disagree with this
9	cancer are higher than normal in women whose jobs	9	statement: "Habitual use of talcum powder on the
10	expose them to asbestos."	10	genital area may increase the risk for ovarian
11	Q All right. Thank you.	11	cancer, but the evidence is not strong"?
12	Fair to say, Dr. Diette, that your	12	MR. LOCKE: Objection.
13	opinions are contrary to the opinions of what	13	BY MS. PARFITT:
13 14	of those individuals at the Sidney Kimmel	14	
15	Comprehensive Cancer Center?	15	Q Do you agree with that statement?
16	MS. BROWN: Objection to the form of the	16	A I don't literally agree or disagree with
17	question, lacks foundation.	17	it. I mean, I think I break it down the way that I did into those two parts.
18	THE WITNESS: I wouldn't say globally.	18	_
			Q Okay. Well, I have a different
19 20	I mean there's there's things here that	19	question. I know how you want to do it, but I
20	resonate with me just fine.	20	I do get the ask the questions.
21	BY MS. PARFITT:	21 22	MS. BROWN: He answered your question,
22	Q What resonates with you fine and what		Counsel.
23	does not resonate with you?	23 24	BY MS. PARFITT:
24	A Well, so, for example, when Q And if you will, I'm going to put mine	25	Q Habitual question yes or no MS. BROWN: No.
25			

55 (Pages 214 to 217)

1	Page 218		Page 220
1	BY MS. PARFITT:	1	than "may increase the risk," and it's very
2	Q "Habitual use of talcum powder on the	2	different than saying it causes it.
3	genital area may increase the risk for ovarian	3	BY MS. PARFITT:
4	cancer." True or false?	4	Q Okay.
5	MR. LOCKE: Objection.	5	A So it's it's a pretty vague
6	MS. BROWN: Objection to the form of the	6	statement.
7	question, asked and answered.	7	Q Okay. And I think I hear what you're
8	You can give the same answer again.	8	saying, but my question, and I think you just
9	THE WITNESS: It's	9	answered it, is if if Judge Wolfson says to
10	MS. PARFITT: Counsel, please quit	10	you, Dr. Diette, I would like an answer to my
11	instructing the witness.	11	question: Does the habitual use of talcum powder
12	MS. BROWN: Counsel, don't yell at me.	12	on the genital area increase the risk for ovarian
13	BY MS. PARFITT:	13	cancer?
14	Q Go ahead.	14	My my question to you from Judge
15	MS. BROWN: We can call the Judge.	15	Wolfson.
16	MS. PARFITT: I'm not yelling we can	16	MR. LOCKE: Objection.
17	call the Judge because I'll tell you, I don't	17	MS. BROWN: Objection to the form of the
18	think he'll be she will be impressed.	18	question, asked and answered.
19	MS. BROWN: That's fine. Let's go.	19	THE WITNESS: And whether it does?
20	Let's walk right there and call her right now.	20	BY MS. PARFITT:
21	MS. PARFITT: I'm not going to waste the	21	Q Yeah, the question is
22	time right now.	22	A Well, it doesn't say that, though.
23	MS. BROWN: Okay.	23	Q do you have no, no, no, I know it
24	THE WITNESS: So I don't see it as a	24	doesn't.
25	true or false questions. I think that there's two	25	A Oh.
	Page 219		Page 221
1	parts, and I I like the way that I answered it.	1	Q I'm representing you've already told
2	BY MS. PARFITT:	2	me what you said about what's here.
3	Q Well, let me ask you this: My if	1 2	
		3	A I see.
4	Judge Wolfson, who is the judge presiding over	4	A I see.  Q What I'm asking you is, do you have an
4 5	Judge Wolfson, who is the judge presiding over this case, says to you, Dr. Diette, I've got a		
		4	Q What I'm asking you is, do you have an
5	this case, says to you, Dr. Diette, I've got a question for you this is in July do you have an opinion whether or not habitual use of talcum	4 5	Q What I'm asking you is, do you have an opinion whether or not the habitual use of talcum
5 6	this case, says to you, Dr. Diette, I've got a question for you this is in July do you have	4 5 6	Q What I'm asking you is, do you have an opinion whether or not the habitual use of talcum powder powder on the genital area may increase
5 6 7	this case, says to you, Dr. Diette, I've got a question for you this is in July do you have an opinion whether or not habitual use of talcum	4 5 6 7	Q What I'm asking you is, do you have an opinion whether or not the habitual use of talcum powder powder on the genital area may increase the risk for ovarian cancer?  A Not to quibble, but you just said does increase before that, and now it's may increase?
5 6 7 8	this case, says to you, Dr. Diette, I've got a question for you this is in July do you have an opinion whether or not habitual use of talcum powder on the genital area may increase the risk	4 5 6 7 8	Q What I'm asking you is, do you have an opinion whether or not the habitual use of talcum powder powder on the genital area may increase the risk for ovarian cancer?  A Not to quibble, but you just said does
5 6 7 8 9	this case, says to you, Dr. Diette, I've got a question for you this is in July do you have an opinion whether or not habitual use of talcum powder on the genital area may increase the risk for ovarian cancer, what are you going to tell	4 5 6 7 8 9	Q What I'm asking you is, do you have an opinion whether or not the habitual use of talcum powder powder on the genital area may increase the risk for ovarian cancer?  A Not to quibble, but you just said does increase before that, and now it's may increase?
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5 6 7 8 9 10	this case, says to you, Dr. Diette, I've got a question for you this is in July do you have an opinion whether or not habitual use of talcum powder on the genital area may increase the risk for ovarian cancer, what are you going to tell her?  MS. BROWN: Objection to the form of the	4 5 6 7 8 9 10 11	Q What I'm asking you is, do you have an opinion whether or not the habitual use of talcum powder powder on the genital area may increase the risk for ovarian cancer?  A Not to quibble, but you just said does increase before that, and now it's may increase?  Is it is it does increase  Q I'm going to do both, yeah.
5 6 7 8 9 10 11	this case, says to you, Dr. Diette, I've got a question for you this is in July do you have an opinion whether or not habitual use of talcum powder on the genital area may increase the risk for ovarian cancer, what are you going to tell her?  MS. BROWN: Objection to the form of the question and to the yelling at the witness.	4 5 6 7 8 9 10 11 12	Q What I'm asking you is, do you have an opinion whether or not the habitual use of talcum powder powder on the genital area may increase the risk for ovarian cancer?  A Not to quibble, but you just said does increase before that, and now it's may increase?  Is it is it does increase Q I'm going to do both, yeah. A Okay. Well, I think this is so watered
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5 6 7 8 9 10 11 12 13	this case, says to you, Dr. Diette, I've got a question for you this is in July do you have an opinion whether or not habitual use of talcum powder on the genital area may increase the risk for ovarian cancer, what are you going to tell her?  MS. BROWN: Objection to the form of the question and to the yelling at the witness. BY MS. PARFITT:  Q I'm not yelling at you, Dr. Diette.	4 5 6 7 8 9 10 11 12 13	Q What I'm asking you is, do you have an opinion whether or not the habitual use of talcum powder powder on the genital area may increase the risk for ovarian cancer?  A Not to quibble, but you just said does increase before that, and now it's may increase? Is it is it does increase  Q I'm going to do both, yeah.  A Okay. Well, I think this is so watered down that it doesn't really say anything definitive when you say "may increase." If the
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5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	this case, says to you, Dr. Diette, I've got a question for you this is in July do you have an opinion whether or not habitual use of talcum powder on the genital area may increase the risk for ovarian cancer, what are you going to tell her?  MS. BROWN: Objection to the form of the question and to the yelling at the witness. BY MS. PARFITT:  Q I'm not yelling at you, Dr. Diette. MS. PARFITT: Everyone is saying I talk believe me, I'm not yelling at him. I'm not that disrespectful. Trust me, please.  THE WITNESS: Okay. I don't think it does, but, you know, there's so many ways you could write this, which is why that it doesn't strike me as something to agree or disagree with. They could could have said "habitual use	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q What I'm asking you is, do you have an opinion whether or not the habitual use of talcum powder powder on the genital area may increase the risk for ovarian cancer?  A Not to quibble, but you just said does increase before that, and now it's may increase? Is it is it does increase Q I'm going to do both, yeah. A Okay. Well, I think this is so watered down that it doesn't really say anything definitive when you say "may increase." If the question is about "does increase," I would say it does not increase the risk. Q Okay. And as worded, you feel that it's somewhat equivocal. Is that fair?  MS. BROWN: Objection to the form of the question.  THE WITNESS: Well, not the entire statement. I mean the evidence is not strong.

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Page 222 Page 224 MS. BROWN: -- of the question, 1 Q Okay. So you agree with "the evidence 1 misstates the document, and it's been asked and 2 is not strong." 2 3 And then what about the next part, "A 3 answered. 4 study at Harvard Medical School found that using 4 THE WITNESS: I'd be careful a lot of 5 5 talc this way doubled the risk, but other studies ways, right? I think it's -- it's easy to say 6 6 found no increased risk." Do you agree with that what, you know, Johns Hopkins is saying. I don't 7 7 statement? know how well this represents Johns Hopkins as an 8 8 entity. I -- like I don't know who controls this MS. BROWN: Objection to the form of the 9 question. 9 website. I don't know who the author was. I 10 10 THE WITNESS: It's -- I would say maybe. don't know if it was -- you know, somebody who was 11 11 And the reason is because they -- they haven't hired for the summer to create a website or 12 12 cited what the Harvard study is. It -- I could whether it's somebody who is a credible 13 13 assume, but I might be wrong that maybe it's the researcher. 14 But I also know that these kinds of 14 Cramer study from '82. Maybe it's not. So I don't know. So if they're citing that, then --15 15 things populate all kinds of different websites, 16 then that might well be a correct statement. And 16 and they're not necessarily like a policy 17 17 it's certainly correct that other studies have statement, you know, of a university or a hospital 18 18 found no increased risk. or an entity. 19 BY MS. PARFITT: 19 BY MS. PARFITT: 20 20 Q And I'll --Q All right. So from your review of the 21 medical and scientific literature, you have seen 21 A I would just be careful, I mean just in 22 where scientists who look at the same scientific 22 terms of saying Johns Hopkins is saying this. 23 and medical literature can arrive at different 23 Q Well, I will represent to you, and you 24 24 can see for yourself, that the Sidney Kimmel opinions, correct? 25 25 MS. BROWN: Objection to the form of the Comprehensive Center puts out this information. Page 223 Page 225 1 Your institution. 1 question. 2 2 THE WITNESS: Are we talking about a MS. BROWN: Objection to the form of the 3 specific topic or just you -- in general, that 3 question, and misstates the document. 4 scientists can disagree with each other? 4 THE WITNESS: It's the same issue. 5 5 BY MS. PARFITT: Right. I mean I know the Sidney Kimmel Cancer 6 6 Q Scientists can disagree with each other. Center, and I work there. It's -- but I don't 7 7 MS. BROWN: Objection to the form. know what the source is of this information, I 8 8 don't know who's the author, and I don't know what THE WITNESS: I think in general, they 9 can disagree about all sorts of things. I don't 9 they expect it to represent in terms of a Johns 10 think there's a good reason to disagree about this 10 Hopkins, you know, point of view. 11 BY MS. PARFITT: 11 topic that we're talking about. 12 12 BY MS. PARFITT: Q Did anyone over at the Sidney Kimmel 13 Comprehensive Cancer Center ever consult you with 13 Q Well, in this particular sentence, Johns 14 Hopkins University is representing to consumers, 14 regard to what language should be included on the 15 15 or anyone who wants to get onto the website, that website with regard to risk factor information? 16 medical schools found -- that a study of the 16 A No. Harvard Medical School found that using talc this 17 MS. BROWN: Objection to the form. 17 18 way doubled the risk, but other studies found no 18 BY MS. PARFITT: 19 19 increased risk. Q Okay. The second part, let's go on. If A Yes. 20 you will, it starts with -- if you can read on 2.0 21 "Some," if you would read that, please. 21 Q Is it fair to say they're communicating 22 that there are science -- there's science out 22 A "Some researchers believe that talc may 23 there that goes both ways? 23 be carcinogenic because it contains particles of 24 MS. BROWN: Objection to the form --24 asbestos, a known carcinogen." 25 25 MR. LOCKE: Objection. Q All right. And do you agree with that

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	Page 226		Page 228
1	statement?	1	out to the Food and Drug Administration to share
2	MS. BROWN: Objection to the form.	2	your opinions with them?
3	THE WITNESS: Well, I certainly agree	3	A No.
4	that some researchers believe that, because we've	4	Q All right. Other than counsel who has
5	seen it in plaintiffs' experts. So it's on its	5	retained you to provide an expert a legal
6	face, I think it's a a true true statement	6	expert report, have you reached out to any
7	that there are people who believe that.	7	scientific body to share your opinions?
8	And I think the part that asbestos is a	8	MS. BROWN: Objection to the form.
9	known carcinogen is also something I agree with.	9	THE WITNESS: No.
10	BY MS. PARFITT:	10	BY MS. PARFITT:
11	Q Okay. And then it goes on to say:	11	Q Okay. Have you reached out to any
12	"It's been shown that rates of ovarian cancer are	12	medical body to share your opinions?
13	higher than normal in women whose jobs expose them	13	MS. BROWN: Objection to the form.
14	to asbestos."	14	THE WITNESS: No.
15	Do you agree with that statement?	15	BY MS. PARFITT:
16	A So, you know, this language is is not	16	Q Okay. Did you reach out to the Sidney
17	great, right? It has been shown that, right. So	17	Kimmel Comprehensive Cancer Center and the folks
18	we could look at, you know, any one of those	18	over there and share with them what your opinions
19	studies that was done around World War II, for	19	are?
20	example, and if you looked at one that was	20	A No.
21	positive, you could say it was shown that they	21	MS. BROWN: Asked and answered.
22	were higher. I'm not sure whether the general	22	BY MS. PARFITT:
23	proposition has been established, though.	23	Q Do you know Dr. Merlo?
24	Q Okay.	24	A I do.
25	A If you guys are going to whisper, you're	25	Q He's a friend of yours, right?
	2 005		2 000
	Page 227		
			Page 229
1	going to miss what I'm saying.	1	A He is.
2	going to miss what I'm saying.  Q No, I was I was just turned.	2	A He is. Q Okay. And you're Facebook friends.
	going to miss what I'm saying.  Q No, I was I was just turned.  A Okay.	2	<ul><li>A He is.</li><li>Q Okay. And you're Facebook friends.</li><li>A I'm friends with his wife. He and I</li></ul>
2 3 4	going to miss what I'm saying.  Q No, I was I was just turned.  A Okay.  Q I heard what you said. Thank you.	2 3 4	A He is.  Q Okay. And you're Facebook friends.  A I'm friends with his wife. He and I might be also, but we're friends in in reality,
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2 3 4	going to miss what I'm saying.  Q No, I was I was just turned.  A Okay.  Q I heard what you said. Thank you.  A All right.  Q And fortunately, I have it right here in	2 3 4	A He is.  Q Okay. And you're Facebook friends.  A I'm friends with his wife. He and I might be also, but we're friends in in reality, not just on  Q Not just on Facebook.
2 3 4 5	going to miss what I'm saying.  Q No, I was I was just turned.  A Okay.  Q I heard what you said. Thank you.  A All right.  Q And fortunately, I have it right here in front of you too.	2 3 4 5	A He is.  Q Okay. And you're Facebook friends.  A I'm friends with his wife. He and I might be also, but we're friends in in reality, not just on  Q Not just on Facebook.  A Yeah.
2 3 4 5 6	going to miss what I'm saying.  Q No, I was I was just turned.  A Okay.  Q I heard what you said. Thank you.  A All right.  Q And fortunately, I have it right here in front of you too.  A Okay, good. Good, good, good.	2 3 4 5 6	A He is.  Q Okay. And you're Facebook friends.  A I'm friends with his wife. He and I might be also, but we're friends in in reality, not just on  Q Not just on Facebook.
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2 3 4 5 6 7 8 9 10	going to miss what I'm saying.  Q No, I was I was just turned.  A Okay.  Q I heard what you said. Thank you.  A All right.  Q And fortunately, I have it right here in front of you too.  A Okay, good. Good, good, good.  Q Yeah, thank you. And I thought you had finished what you were saying because you finished "okay," so I thought  MS. BROWN: That's your "okay," Counsel.  BY MS. PARFITT:	2 3 4 5 6 7 8 9 10	A He is. Q Okay. And you're Facebook friends. A I'm friends with his wife. He and I might be also, but we're friends in in reality, not just on Q Not just on Facebook. A Yeah. Q Is his wife a doctor? A She is not. Q Okay. Do you know Dr. April Zambelli-Weiner?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15	going to miss what I'm saying.  Q No, I was I was just turned.  A Okay.  Q I heard what you said. Thank you.  A All right.  Q And fortunately, I have it right here in front of you too.  A Okay, good. Good, good, good.  Q Yeah, thank you. And I thought you had finished what you were saying because you finished "okay," so I thought  MS. BROWN: That's your "okay," Counsel.  BY MS. PARFITT:  Q I'm sorry. I believe you finished. I'm not sure whether the general proposition has been	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A He is. Q Okay. And you're Facebook friends. A I'm friends with his wife. He and I might be also, but we're friends in in reality, not just on Q Not just on Facebook. A Yeah. Q Is his wife a doctor? A She is not. Q Okay. Do you know Dr. April Zambelli-Weiner? A I do. Q Okay. You have worked with her in the past, correct? A Really briefly, way back when.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	going to miss what I'm saying.  Q No, I was I was just turned.  A Okay.  Q I heard what you said. Thank you.  A All right.  Q And fortunately, I have it right here in front of you too.  A Okay, good. Good, good, good.  Q Yeah, thank you. And I thought you had finished what you were saying because you finished "okay," so I thought  MS. BROWN: That's your "okay," Counsel.  BY MS. PARFITT:  Q I'm sorry. I believe you finished. I'm not sure whether the general proposition has been established. So I thought that was the end  A That was the end  Q of your sentence.  A Yeah.  Q Right. Okay. All right.  A Are we done with this one?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A He is. Q Okay. And you're Facebook friends. A I'm friends with his wife. He and I might be also, but we're friends in in reality, not just on Q Not just on Facebook. A Yeah. Q Is his wife a doctor? A She is not. Q Okay. Do you know Dr. April Zambelli-Weiner? A I do. Q Okay. You have worked with her in the past, correct? A Really briefly, way back when. Q Okay. Do you consider her do you know she's an epidemiologist, correct? A I think I know that. Q Okay. Do you consider her an epidemiologist with expertise and well received in the medical comm and scientific community?
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58 (Pages 226 to 229)

ı	Page 230		Page 232
1	that I saw her was when she was still training at	1	appear and give testimony, correct?
2	Hopkins. And so there's a couple of decades that	2	A Correct.
3	have gone by. So I so I honestly have no idea	3	MS. BROWN: Form.
4	what her reputation is at this point.	4	BY MS. PARFITT:
5	BY MS. PARFITT:	5	Q Right. So no one inquired as to what
6	Q Okay. Did you work with her?	6	your opinions were on this topic; is that correct?
7	A Sort of. Like not we were we were	7	MS. BROWN: Asked and answered.
8	both involved in a research project, but we	8	THE WITNESS: That is correct.
9	weren't both involved in the same part of the	9	BY MS. PARFITT:
10	project. So I it's to say that we worked	10	Q Okay. I'll represent to you that at the
11	together, it's it's a little bit vague in a way	11	hearing, both consumer and industry were invited
12	about whether we did. We traveled together for	12	to attend.
13	one particular research program we were a part of.	13	Are you aware that Dr. McTiernan, who is
14	But	14	an expert in this case, was one of those
15	Q Okay.	15	individuals that was invited to attend?
16	A Like I don't think we published	16	MR. LOCKE: Objection.
17	together. I don't think.	17	MS. BROWN: Objection. Lacks
18	Q Do you think of her as a good scientist?	18	foundation.
19	MS. BROWN: Objection to the form of the	19	THE WITNESS: I don't know.
20	question, calls for speculation.	20	BY MS. PARFITT:
21	THE WITNESS: I I honestly don't know	21	Q Okay. You've read her expert report,
22	what she's what she's up to. I mean it's	22	correct?
23	literally been a couple of decades.	23	A I did.
24	BY MS. PARFITT:	24	Q And you understand that she was one of
25	Q Sure. Well, when you did know her back	25	the coinvestigators with the WHI study?
	Page 231		Page 233
1	a couple of decades ago, did you consider her a	1	MS. BROWN: Objection to the form.
2	good scientist?	2	BY MS. PARFITT:
3	MS. BROWN: Objection to the form,	3	Q One of the cohorts that you rely on.
4	vague, calls for speculation.	4	MS. BROWN: Foundation, speculation.
5	THE WITNESS: I wouldn't say that I know	5	THE WITNESS: That's what I understand.
6	that she wasn't, but I really wasn't very familiar	6	BY MS. PARFITT:
7	with what her work was.	7	
8		l '	Q Okay. When you were writing your expert
U	BY MS. PARFITT:	8	Q Okay. When you were writing your expert report and researching the cohort studies, did you
9	Q Her work. Okay. That's fair enough.		report and researching the cohort studies, did you ever reach out to Dr. McTiernan to consult with
	<ul><li>Q Her work. Okay. That's fair enough.</li><li>Okay. Alrighty. Let's set this aside.</li></ul>	8	report and researching the cohort studies, did you
9 10 11	<ul><li>Q Her work. Okay. That's fair enough.</li><li>Okay. Alrighty. Let's set this aside.</li><li>Dr. Diette, are you aware that just last</li></ul>	8 9 10 11	report and researching the cohort studies, did you ever reach out to Dr. McTiernan to consult with
9	<ul><li>Q Her work. Okay. That's fair enough.</li><li>Okay. Alrighty. Let's set this aside.</li></ul>	8 9 10	report and researching the cohort studies, did you ever reach out to Dr. McTiernan to consult with her with regard to her thoughts and opinions about
9 10 11	<ul><li>Q Her work. Okay. That's fair enough.</li><li>Okay. Alrighty. Let's set this aside.</li><li>Dr. Diette, are you aware that just last</li></ul>	8 9 10 11	report and researching the cohort studies, did you ever reach out to Dr. McTiernan to consult with her with regard to her thoughts and opinions about that particular cohort study?
9 10 11 12	Q Her work. Okay. That's fair enough. Okay. Alrighty. Let's set this aside. Dr. Diette, are you aware that just last month, and I believe it was March 12th, the House Committee on Oversight and Reform, Committee on Economic and Consumer Policy conducted a hearing	8 9 10 11 12	report and researching the cohort studies, did you ever reach out to Dr. McTiernan to consult with her with regard to her thoughts and opinions about that particular cohort study?  MS. BROWN: Objection to the form.
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9 10 11 12 13 14 15 16 17 18 19 20 21	Q Her work. Okay. That's fair enough. Okay. Alrighty. Let's set this aside. Dr. Diette, are you aware that just last month, and I believe it was March 12th, the House Committee on Oversight and Reform, Committee on Economic and Consumer Policy conducted a hearing about the public health risk of carcinogens in talcum powder products and other consumer products? Were you aware of that? MR. LOCKE: Objection. MS. BROWN: Objection to the form. THE WITNESS: I saw that a question about that in one of the deposition transcripts that I that I read. I don't remember which	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	report and researching the cohort studies, did you ever reach out to Dr. McTiernan to consult with her with regard to her thoughts and opinions about that particular cohort study?  MS. BROWN: Objection to the form.  Which study?  MS. PARFITT: I said the WHI study.  MS. BROWN: It's not in your question.  THE WITNESS: Assuming the WHI study, I did not.  BY MS. PARFITT:  Q Okay. Dr. McTiernan testified at that hearing, and her testimony went uncontroverted, that there was a statistically significant increased risk of 22 to 31 percent of developing

### Case 3:16-md-02738-MAS-RLS Document 9737-8 Filed 05/07/19 Page 185 of 516 PageID: 38885 Gregory B. Diette, M.D.

1 MR. LOCKE: Objection. 2 MS. BROWN: Objection. This lacks 3 foundation. Counsel, are you giving him a 4 hypothetical? Or if not, are you going to give 5 him something that would support the statements 6 that you're making on the record? 6 BY MS. PARFITT: 7 Specifically I can put it on the ELMO here. 8 Q Assume that Dr. McTiernan testified 9 before the subcommittee who was investigating the 10 safety of talcum powder products, that 11 Dr. McTiernan testified that there was scientific 12 evidence that women who used talcum powder 13 products have a statistically significant 1 March 12th, 2019. 2 Do you see that? 3 A I see it. 4 Q Okay. If I can direct your attention to and I'll represent that this was a statement that she submitted prior to the hearing, and specifically I can put it on the ELMO here. 8 Let's go down to the third full paragraph. 9 Do you see that, it starts 10 "Summarizing"? 11 A Yes. 12 Q Okay. And it states: "Summarizing defrom all of the published studies consistently	
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	ata
13 products have a statistically significant 13 from all of the published studies consistently	ш
14 increased risk of 22 to 31 percent of developing 14 shows that women who had ever used talcum	owder
15 ovarian cancer. 15 products in the genital area had a statistically	iowaci
16 A So, first of all 16 significant 22 to 31 percent increased risk of	
17 MS. BROWN: Wait, wait. What's the 17 developing epithelial ovarian cancer compared	with
18 question? 18 women who had never used them. Evidence s	
19 BY MS. PARFITT: 19 that these associations hold across diverse race	-
20 Q And I should add developing epithelial 20 and ethnic groups."	
21 ovarian cancer having used talcum powder products. 21 Did I read that correctly?	
22 MS. BROWN: What's the question? You 22 A You did.	
23 just gave an assumption. 23 Q All right. Do you agree with that	
24 BY MS. PARFITT: 24 statement?	
25 Q Do you 25 MS. BROWN: Objection to the form.	
Page 235 Page	237
1 MS. PARFITT: I just was finishing. 1 THE WITNESS: Well, I think this is	
2 BY MS. PARFITT: 2 compatible with what, you know, her report an	1 her
	l her
	l her
3 Q But do you agree with her statement 3 testimony has been generally. I think it's	l her
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	Page 238		Page 240
1	Terry, but there's other information in there,	1	search terms that you used in order to do your
2	like from Berge, for example, you know, who points	2	literature review?
3	out that there's no risk seen in the cohort	3	A I didn't I didn't write them down,
4	studies. So I think if this were balanced, that	4	but it you know, this didn't start as like a
5	she would she would have more information than	5	like a like there's been some searches that
6	just that particular statement.	6	I've been involved in where, you know, somebody
7	Q Okay. And we'll talk a little bit more	7	might commission a review of a particular topic,
8	about the the cohorts in just just a moment.	8	and you have to figure out what those search terms
9	Okay. What was the methodology you	9	are.
10	employed in order to present the opinions and	10	In this case, there's a really good head
11	bases for opinions in your report?	11	start because there's meta-analyses done and
12	A So generally, I tried to identify all of	12	there's some other some other papers. And so
13	the relevant epidemiologic studies is that what	13	what I tried to use was the words that the authors
14	you're you're asking?	14	used, you know, assuming that they would then link
15	Q That is?	15	up and find the other other articles.
16	A Okay.	16	So so like "ovarian cancer," "talc,"
17	Q That is.	17	"talcum powder," probably some you know, some
18	A And so I tried to find them in an	18	words like "risk" and "cause" and I think for
19	iterative way, you know, meaning that there were	19	that part of it that was that was kind of the
20	meta-analyses that had many of them listed. I did	20	bulk of it. There may have been other terms that
21	some searches of their own reference lists to look	21	came up in some of the some of the articles
22	for others. I did searches, you know, using	22	that I would search for also, but that that was
23	web-based, you know, tools to find other other	23	the main ones.
24	studies, and tried to get what I thought was a	24	Q Did you search for the word "cancer"?
25	pretty comprehensive group of all the	25	A Oh, well, "ovarian cancer."
	- 020		
	Page 239		Page 241
1	epidemiologic studies.	1	Page 241  Q Okay. Did you search for the word
1 2	epidemiologic studies.  And then I also tried to read other	1 2	
	epidemiologic studies.  And then I also tried to read other things, you know, IARC monographs, other like		Q Okay. Did you search for the word
2	epidemiologic studies.  And then I also tried to read other things, you know, IARC monographs, other like reports from like American College of Obstetrics	2	Q Okay. Did you search for the word "asbestos"?  A I did, but differently so I did sort of a separate search for that, which was "asbestos
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2 3 4	epidemiologic studies.  And then I also tried to read other things, you know, IARC monographs, other like reports from like American College of Obstetrics and Gynecology, and and get a sense of how some of the information was being interpreted by	2 3 4	Q Okay. Did you search for the word "asbestos"?  A I did, but differently so I did sort of a separate search for that, which was "asbestos and ovarian cancer." Same approach, but but different I thought we were just talking about
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2 3 4 5 6 7	epidemiologic studies.  And then I also tried to read other things, you know, IARC monographs, other like reports from like American College of Obstetrics and Gynecology, and and get a sense of how some of the information was being interpreted by other other bodies.  And and then ultimately looked at criteria that people recognize as useful for	2 3 4 5 6 7	Q Okay. Did you search for the word "asbestos"?  A I did, but differently so I did sort of a separate search for that, which was "asbestos and ovarian cancer." Same approach, but but different I thought we were just talking about the talcum powder at the moment.  But separately, I did a search for "asbestos and and ovarian cancer." And and
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	Page 242		Page 244
1	Q There's no question pending.	1	A Some
2	I assume you did a literature search	2	MS. BROWN: Objection to the form.
3	back in the early part of 2017 when you were first	3	THE WITNESS: Some of it.
4	retained, correct?	4	BY MS. PARFITT:
5	A Correct.	5	Q Okay. And how did you select the
6	Q All right. So did you update that	6	case the cases that became part of your list of
7	literature search?	7	cases on page 13 and 14 of your report?
8	A Oh, yeah.	8	A What does "cases" mean?
9	Q Okay. Did you keep do you keep some	9	Q Studies. You have them listed on
10	kind of recordation of material you had before and	10	page 13, and it carries over to page 14.
11	then what material you're looking at now for	11	A It's the way I describe it, I don't
12	purposes of this most recent report?	12	think I got to finish answering the question about
13	A No, I mean it's not sorted by by when	13	the the rest of the methodology. You'd have to
14	I found it.	14	turn over to page 6, and in the section called
15	Q All right. You represented, at least in	15	"Review of Epidemiology Data," there's a
16	your report, that you looked at the databases	16	description of what I just told you verbally just
17	Medline and Google.	17	a moment ago, which is talking about MedLine and
18	Did you use any other databases for your	18	Google Scholar, and reviewed the reference list of
19	research?	19	the individual studies and the meta-analyses to
20	A Well, scholar Google Scholar as	20	assemble a complete list of studies, and then I
21	opposed to just plain Google and then main Google	21	it goes on. That's not the whole paragraph
22	itself. I don't remember if I used any others.	22	obviously, but that's the that's the general
23	Q Okay. Where in your report do you share	23	method of how I found them.
24	your systematic review and collection of the	24	Q Okay. And what process did you go
25	various literature that formed the bases of your	25	through to select or deselect certain pieces of
	Page 243		Page 245
1	Page 243 opinion?	1	Page 245 literature that you reviewed?
1 2		1 2	
	opinion?		literature that you reviewed?
2	opinion?  A I didn't write that part, I don't think,	2	literature that you reviewed?  A Well, I I included all of the ones
2	opinion?  A I didn't write that part, I don't think, but it I do talk about the the methodology	2 3	literature that you reviewed?  A Well, I I included all of the ones that I could find. I mean we're talking about the
2 3 4	opinion?  A I didn't write that part, I don't think, but it I do talk about the the methodology in general.	2 3 4	literature that you reviewed?  A Well, I I included all of the ones that I could find. I mean we're talking about the epidemiologic studies.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	opinion?  A I didn't write that part, I don't think, but it I do talk about the the methodology in general.  Q Okay. Well, you talk about the methodology on page I believe it's page 4, and there's about two paragraphs there, and then on the top of page 5, where there's just two full paragraphs.  So my question is, where do you is there anywhere else in your report that you set forth your methodology  A Yeah.  Q employed in order to A Sure, other places Q form the basis for your opinions? A Sorry, I didn't mean to interrupt. Q No, and what I'm saying A Were you done? Q you have a methodology section let's start over.  You have a methodology section of your	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	literature that you reviewed?  A Well, I I included all of the ones that I could find. I mean we're talking about the epidemiologic studies.  Q We are. We are indeed, yeah.  A So like in terms of the cohort studies, there's only three I could find. There's more than three publications that pertain to the three, but I included all three, and I included all the publications I could find on the topic.  But the case-control study, a similar approach, although there's a little bit of confusion with the case controls because there's overlap. There is a redundant publication where some authors are presenting the same data twice, and it's not entirely clear how to unravel them. So I just tried to include as many of those as I could that looked like distinct studies, and I tried to make sure I had the you know, the vast majority of what was being considered in the meta-analysis as well.  Q I think where I'm going is, where do
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	opinion?  A I didn't write that part, I don't think, but it I do talk about the the methodology in general.  Q Okay. Well, you talk about the methodology on page I believe it's page 4, and there's about two paragraphs there, and then on the top of page 5, where there's just two full paragraphs.  So my question is, where do you is there anywhere else in your report that you set forth your methodology  A Yeah.  Q employed in order to A Sure, other places Q form the basis for your opinions? A Sorry, I didn't mean to interrupt. Q No, and what I'm saying A Were you done? Q you have a methodology section let's start over.  You have a methodology section of your	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	literature that you reviewed?  A Well, I I included all of the ones that I could find. I mean we're talking about the epidemiologic studies.  Q We are. We are indeed, yeah.  A So like in terms of the cohort studies, there's only three I could find. There's more than three publications that pertain to the three, but I included all three, and I included all the publications I could find on the topic.  But the case-control study, a similar approach, although there's a little bit of confusion with the case controls because there's overlap. There is a redundant publication where some authors are presenting the same data twice, and it's not entirely clear how to unravel them. So I just tried to include as many of those as I could that looked like distinct studies, and I tried to make sure I had the you know, the vast majority of what was being considered in the meta-analysis as well.  Q I think where I'm going is, where do

Page 246		Page 248
-		-
		of the risk risk estimates, not of the number
		of cases.
		BY MS. PARFITT:
· •		Q Correct. So where on this page 13 or 14
		do you tell the reader how many ovarian cancer
		cases were part of that study?
		MS. BROWN: Objection to the form.
•		THE WITNESS: It's not on there.
		BY MS. PARFITT:
		Q Okay. Where on your list of cases, 13
		and 14, do you tell the reader the number of
	1	controls that were involved in that study?
		A I didn't I didn't list every single
		thing like that on here.
		Q You didn't list it in your report
		either, correct?
		MS. BROWN: Objection to the form.
	1	THE WITNESS: Well, this is the report.
		BY MS. PARFITT:
<del>-</del>		Q Well, you didn't list it anywhere else
		other that information is not contained in your
	1	report. Is that fair?
		MS. BROWN: Objection to the form.
		MR. LOCKE: Objection.
Q Were there any studies that you chose	25	THE WITNESS: The sample size?
Page 247		Page 249
not to include on your list of 13 and 14 that you	1	BY MS. PARFITT:
	2	Q The sample size is not information that
	3	you contained that you included in your report,
	4	correct?
	5	A I did not.
O Correct.	6	MS. BROWN: Same objection.
A I didn't wait a minute. I didn't	7	
deliberately not include any of them. I tried to		BY MS. PARFITT:
deliberately not include any of them. I tried to include every single one, with that exception	8 9	
include every single one, with that exception	8	BY MS. PARFITT:  Q Okay. Where in your report do you tell
include every single one, with that exception being and I don't remember which ones were	8	BY MS. PARFITT:  Q Okay. Where in your report do you tell the reader the country from where these studies came from?
include every single one, with that exception	8 9 10	BY MS. PARFITT:  Q Okay. Where in your report do you tell the reader the country from where these studies
include every single one, with that exception being and I don't remember which ones were which, but there were a couple that were redundant. You know, the the authors of these	8 9 10 11	BY MS. PARFITT:  Q Okay. Where in your report do you tell the reader the country from where these studies came from?  MS. BROWN: Objection to the form.
include every single one, with that exception being and I don't remember which ones were which, but there were a couple that were redundant. You know, the the authors of these haven't in every case been careful about reporting	8 9 10 11 12	BY MS. PARFITT:  Q Okay. Where in your report do you tell the reader the country from where these studies came from?  MS. BROWN: Objection to the form.  THE WITNESS: I don't list that.  BY MS. PARFITT:
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	not to include on your list of 13 and 14 that you had actually reviewed during the course of your study?  A And we're talking about case-control studies and cohorts.  Q Correct.	I wasn't trying to exclude any studies.  BY MS. PARFITT:  Q So every so may I assume from that statement that all of the literature that you've listed on page 13 and 14 in the cohort studies and the meta-analysis is the entire body of literature that you reviewed?  A Of course not.  MS. BROWN: Objection to the form.  THE WITNESS: No, no, what well, I guess, if you could, please be very precise what you're asking.  To me what I think we're talking about is the case-control studies and the cohort studies, and so I tried to identify every single one of them. So I didn't have an exclusion criteria to say I was going to ignore this one because it wasn't supportive of my view or something like that. I included them all.  I searched for clinical trials, but there weren't any. So that was that was an issue as well.  BY MS. PARFITT:  Q Were there any studies that you chose  Page 247  not to include on your list of 13 and 14 that you had actually reviewed during the course of your study?  A And we're talking about case-control studies and cohorts.

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Gregory B. Diette, M.D.

Page 250 Page 252 Q What specific, if any, in vitro studies 1 capture that here. 1 2 BY MS. PARFITT: 2 did you consider for purposes of your opinion? 3 Q Okay. And where in your report do you 3 A So I -- are you good? 4 tell the reader the type of ovarian cancer that Q Yeah, thank you. 4 5 5 A Okay. So I -- I don't know if you're the women suffered? 6 MS. BROWN: Objection to the form. 6 including some animal studies as in vitro studies 7 THE WITNESS: That's not listed on -- on 7 or whether you just mean sort of like ones that 8 this table either. 8 are -- that are cell-based or in a dish. 9 BY MS. PARFITT: 9 Q Well, there's a difference, isn't there? 10 Q Did you create this table yourself or A There should be, yeah, but I just --10 11 did you have assistance? since you're asking the question, I don't know 11 12 A So, actually, I made this initially, and 12 you, and so I -- I just want to be clear. 13 there might have been a couple that filtered in 13 Q No, I'm -- I'm cognizant of the 14 after I started to create it where -- you know, 14 difference between in vivo and in vitro, so what 15 where I had an assistant, you know, plug in a 15 I -- what I would ask you is what in vitro studies 16 different study. 16 did you consider for purposes of your analysis? 17 Q Where in your report do you tell the 17 A Yeah, I looked at some. I think the 18 reader if you applied a scoring system to the data 18 ones that were cited by IARC I looked at. I don't 19 and the studies that you reviewed? 19 remember the full list of ones -- which ones I may 20 A That wasn't --20 have listed, if any, that -- that I looked at. 21 MS. BROWN: Objection. Lacks 21 But that wasn't really my main -- my main purpose 22 foundation. 22 in looking at the epidemiology, which was to --23 THE WITNESS: That wasn't my approach. 23 was to look at in vitro studies. 24 BY MS. PARFITT: 24 Q Okay. Was part of your analysis -- or 25 Q Okay. We'll talk about that in a 25 did part of your analysis include looking at Page 251 Page 253 1 minute. Appreciate that. 1 in vivo studies? 2 Did you exercise any independent 2 A So I looked at -- at a bunch of the 3 judgment in determining what cases to include on 3 different animal studies that were cited, cited in 4 this chart of case-control studies on 13 and 14? 4 some of the other documents. 5 MS. BROWN: Objection. Asked and 5 Which ones? 6 answered. 6 A So I don't remember the author names. I 7 7 THE WITNESS: I tried to be inclusive. mean, there were -- there were studies of, you 8 BY MS. PARFITT: 8 know, rats, rabbits, primates. I can't remember 9 Q Being inclusive -- did being inclusive 9 if there were mouse -- there were mouse studies as 10 require you to exercise professional judgment with 10 well. 11 regard to selection of the cases that you reviewed 11 So whatever that list is that was in 12 12 and included for purposes of your analysis? IARC that they had considered at that point, and 13 A So, mostly, yes. What I would say is I 13 then I think I found a couple more. was trying to understand what the universe was of 14 Q What, if any, information did you glean 14 15 15 case controls that were being listed in the from your review of the in vitro and in vivo studies that formed the basis of your study 16 meta-analyses, what the case controls were that 16 17 were informing the opinions of the plaintiffs' 17 18 experts. And so I didn't want to have some 18 A Well, mostly -- so to -- to think about 19 arbitrary rule for saying one shouldn't be in 19 how -- for me as an epidemiologist, and not as a 20 here. I wanted to look at them all. And so my 20 cancer biologist or molecular biologist, I wanted 21 goal was actually to include them all, and not 21 to just understand generally how some of the other 22 deselect some because I thought that there was a 22 entities were wielding that information, right. 23 quality issue with them. 23 So that -- like I wasn't about to become a cancer 24 (Brief interruption.) 24 biologist in reading these things or understand 25 25 BY MS. PARFITT: whether their methods were appropriate or not, but

	Page 254		Page 256
1	I did want to understand some of their	1	MS. BROWN: What report is
2	underpinnings.	2	MS. PARFITT: Saed.
3	Q Okay.	3	BY MS. PARFITT:
4	A And just so, for example, right, so	4	Q Just give me a moment, Doctor.
5	there's the the studies on migration, for	5	If you turn your attention to page 42.
6	example. I thought it was important to look at	6	A Mm-hmm.
7	those and see what kind of animals, for example,	7	Q At the bottom.
8	had what kind of particles either put into their	8	A Okay.
9	vaginas or put into their uterus, or whatever it	9	Q "I leave a detailed assessment of
10	was, so I could understand what the what the	10	Dr. Saed's efforts to other experts. I did review
11	story was there.	11	Dr. Saed's report and his two depositions and was
12	Q Okay. Do animals have vaginas?	12	struck by the irregularities in his study, which
13	A Some do, yeah.	13	render his results highly questionable."
14	Q You you indicated you're not a cancer	14	So are you or are you not deferring with
15	specialist. Would you defer to on topics	15	regard to opinions concerning what Dr. Saed had to
16	involving those issues to a cancer biologist?	16	say?
17	MS. BROWN: Objection to the form of the	17	MS. BROWN: Objection. Misstates the
18	question.	18	expert report and the opinion.
19	BY MS. PARFITT:	19	THE WITNESS: I I meant to be
20	Q And let me clean it up because I think I	20	somewhat nuanced here, right, which is that you
21	left that off. You are not a cancer biologist,	21	know, it's possible for me to read things and
22	correct?	22	understand that there might be some issues with
23	A Correct.	23	what he's done. I I'm not going to be the
24	Q All right. So would you defer questions	24	person to critique the biologic aspects of his
25	in that wheelhouse to someone who is a cancer	25	work, though.
	Daga 255		Daga 257
	Page 255		Page 257
1	biologist?	1	BY MS. PARFITT:
2	MS. BROWN: Same objection.	2	Q Okay. Fair enough. In fact, let me ask
3	THE WITNESS: So I mostly don't think	3	you, have you read the published scientific
4	about deferring my opinions to other other	4	article by Dr. Saed?
5	people's categorically. You know, so that I think	5	A Not yet.
6	if there were somebody that was a cancer biologist	6	Q Okay. Do you have any plans to do that?
7	and they had an opinion that seemed credible, I	7	A I might. I might, because I was just
8	would take it into account. But to the extent	8	I was curious because I saw some of the like
9	that I needed to understand something, I would	9	the expert reports that came in after I wrote my
10	still rely on my own my own background and	10	report, and there were things that just kind of
11	knowledge.	11	struck me that would be worth trying to sort
1 2			
12	BY MS. PARFITT:	12	through, like whether he had changed like 48 to 36
13	Q All right. You're not a a molecular	13	or yeah, 48 hours to 72 hours, whatever it was,
13 14	Q All right. You're not a a molecular specialist, correct?	13 14	or yeah, 48 hours to 72 hours, whatever it was, that there were like some tables apparently that
13 14 15	Q All right. You're not a a molecular specialist, correct?  MS. BROWN: Objection.	13 14 15	or yeah, 48 hours to 72 hours, whatever it was, that there were like some tables apparently that were the same as an original paper, that the only
13 14 15 16	Q All right. You're not a a molecular specialist, correct?  MS. BROWN: Objection.  THE WITNESS: Not a molecular biologist.	13 14 15 16	or yeah, 48 hours to 72 hours, whatever it was, that there were like some tables apparently that were the same as an original paper, that the only change was like the numbers on them. And so just
13 14 15 16 17	Q All right. You're not a a molecular specialist, correct?  MS. BROWN: Objection.  THE WITNESS: Not a molecular biologist. BY MS. PARFITT:	13 14 15 16 17	or yeah, 48 hours to 72 hours, whatever it was, that there were like some tables apparently that were the same as an original paper, that the only change was like the numbers on them. And so just to sort of understand the quality issues related
13 14 15 16 17 18	Q All right. You're not a a molecular specialist, correct?  MS. BROWN: Objection.  THE WITNESS: Not a molecular biologist.  BY MS. PARFITT:  Q Okay. I believe you stated in your	13 14 15 16 17 18	or yeah, 48 hours to 72 hours, whatever it was, that there were like some tables apparently that were the same as an original paper, that the only change was like the numbers on them. And so just to sort of understand the quality issues related to the study, I thought I might take a look at it.
13 14 15 16 17 18	Q All right. You're not a a molecular specialist, correct?  MS. BROWN: Objection.  THE WITNESS: Not a molecular biologist.  BY MS. PARFITT:  Q Okay. I believe you stated in your report that you were deferring to other experts in	13 14 15 16 17 18 19	or yeah, 48 hours to 72 hours, whatever it was, that there were like some tables apparently that were the same as an original paper, that the only change was like the numbers on them. And so just to sort of understand the quality issues related to the study, I thought I might take a look at it.  Q All right. But prior to preparing your
13 14 15 16 17 18 19 20	Q All right. You're not a a molecular specialist, correct?  MS. BROWN: Objection.  THE WITNESS: Not a molecular biologist. BY MS. PARFITT:  Q Okay. I believe you stated in your report that you were deferring to other experts in this case as it pertains to the opinions that	13 14 15 16 17 18 19 20	or yeah, 48 hours to 72 hours, whatever it was, that there were like some tables apparently that were the same as an original paper, that the only change was like the numbers on them. And so just to sort of understand the quality issues related to the study, I thought I might take a look at it.  Q All right. But prior to preparing your expert report, and, frankly, this deposition
13 14 15 16 17 18 19 20 21	Q All right. You're not a a molecular specialist, correct?  MS. BROWN: Objection.  THE WITNESS: Not a molecular biologist. BY MS. PARFITT:  Q Okay. I believe you stated in your report that you were deferring to other experts in this case as it pertains to the opinions that Dr. Saed has given; is that correct?	13 14 15 16 17 18 19 20 21	or yeah, 48 hours to 72 hours, whatever it was, that there were like some tables apparently that were the same as an original paper, that the only change was like the numbers on them. And so just to sort of understand the quality issues related to the study, I thought I might take a look at it.  Q All right. But prior to preparing your expert report, and, frankly, this deposition today, you have not read either Dr. Saed's you
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13 14 15 16 17 18 19 20 21	Q All right. You're not a a molecular specialist, correct?  MS. BROWN: Objection.  THE WITNESS: Not a molecular biologist. BY MS. PARFITT:  Q Okay. I believe you stated in your report that you were deferring to other experts in this case as it pertains to the opinions that Dr. Saed has given; is that correct?  MS. BROWN: Objection to the form.	13 14 15 16 17 18 19 20 21 22	or yeah, 48 hours to 72 hours, whatever it was, that there were like some tables apparently that were the same as an original paper, that the only change was like the numbers on them. And so just to sort of understand the quality issues related to the study, I thought I might take a look at it.  Q All right. But prior to preparing your expert report, and, frankly, this deposition today, you have not read either Dr. Saed's you have not read Dr. Saed's most current peer-

65 (Pages 254 to 257)

	Page 258		Page 260
1	did the report, but I could be wrong.	1	think, but I've certainly read other I mean
2	Q Well, it's available now, isn't it?	2	others that aren't on either of those topics.
3	A That's what I've heard.	3	Q Would you agree would you agree that
4	MS. BROWN: Objection to the form.	4	IARC is a well-respected scientific organization?
5	BY MS. PARFITT:	5	MS. BROWN: Object I'm sorry. I
6	Q But you've not seen it.	6	didn't hear the question.
7	A No. I just I mean like I mean	7	BY MS. PARFITT:
8	it sorry, it's the way I think. It sounds like	8	Q Would you agree that IARC is a well-
9	two different time periods. One was	9	respected scientific organization?
10	Q No.	10	MS. BROWN: Objection to the form.
11	A before the report and one was between	11	THE WITNESS: It's it's hard for me
12	then and now.	12	to characterize whole organizations, you know, in
13	Q No, my question goes	13	terms of whether they're well respected or by whom
14	MS. BROWN: Wait, he's finishing. Let	14	or when, but generally speaking, you know, they
15	him finish.	15	they do produce some some credible documents.
16	BY MS. PARFITT:	16	BY MS. PARFITT:
17	Q My question are you done?	17	Q They do produce some credible documents.
18	A I'm good.	18	It's IARC is part of the World Health
19	Q My question really goes to, is it fair	19	Organization, correct?
20	to say that you have not read Dr. Saed's published	20	A It is.
21	peer-reviewed article at the time of your	21	Q Okay. And when IARC has its meetings to
22	deposition?	22	discuss classification of carcinogens, it invites
23	A That is correct.	23	world-renowned experts for whatever area and
24	THE WITNESS: Sorry.	24	specialty is being discussed. Is that fair?
25	MS. BROWN: That's all right.	25	MS. BROWN: Objection to the form.
	Page 259		Page 261
1	BY MS. PARFITT:	1	MR. LOCKE: Objection.
2	Q Okay. Now, you've mentioned IARC a	2	MS. BROWN: Calls for speculation.
3	couple of times during the course of your	3	THE WITNESS: I don't know their
4	testimony.	4	selection process, but they but they certainly
5	Have you rereviewed the IARC	5	invite invite people to attend.
6	monograms or the IARC monogram that was	6	BY MS. PARFITT:
7	published in 2010 on silica?	7	Q Okay. Have you ever been invited to
8	MS. BROWN: The monograph?	8	attend an IARC
9	MS. PARFITT: The monograph. Monograph.	9	A I have not.
10	MS. BROWN: Monograph on talc?	10	Q working group?
11	MS. PARFITT: On tale, mm-hmm.	11	A No.
12	THE WITNESS: Did you just say silica or	12	Q Okay. Did IARC invite you to attend
13	no?	13	their working group back in 2006 when they were
14	BY MS. PARFITT:	14	deliberating on the issue of talcum talc
15	Q I did say silica. I meant talc.	15	products?
16	A You meant talc. Yeah, I've read the	16	MS. BROWN: Objection. Same question,
17	talc one.	17	asked and answered.
18	Q You've read the talc one. Have you read	18	THE WITNESS: She's right, but but
19	the 2012 monograph, the one 100C, have you seen	19	no.
20	that?	20	no. BY MS. PARFITT:
21	A I have.	21	Q Okay. Did IARC ever invite you to
22		22	
	Q Okay. Have you read any other		attend and share your opinions when they had their
23	monographs on talc or asbestos?	23	asbestos meetings?
2.4			
24 25	A I've read earlier ones on asbestos. I don't know of any other ones on talc, I don't	24 25	MS. BROWN: Same objection. THE WITNESS: No.

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	Page 262		Page 264
1	BY MS. PARFITT:	1	Q For instance, if is talcum powder a
2	Q Do you know what the NTP is?	2	modifiable behavior the use of talcum powder a
3	A It's like the National Toxicological	3	modifiable behavior?
4	Program.	4	MS. BROWN: Objection. Misstates his
5	Q Okay. Has the National Toxicological	5	prior testimony.
6	Program ever asked you to do research for them on	6	THE WITNESS: So it it should be,
7	talcum powder products?	7	yeah.
8	A No.	8	BY MS. PARFITT:
9	Q Has the National Toxicology Program ever	9	Q Okay. Now, Dr. Diette, your paper or
10	asked that you do research with them on asbestos?	10	your expert report was signed and executed by you
11	A No.	11	on February 25th, 2019.
12	Q Have you ever submitted any research to	12	A Correct.
13	the NTP on anything?	13	Q Okay. When did you actually finish the
14	A No.	14	paper, the report?
15	Q Have you ever submitted any research to	15	A Oh, I think about then. I mean
16	IARC on anything?	16	O About then?
17	A No.	17	A I think around then. I mean it's I
18	O What is a risk factor?	18	don't know whether it was the day before or the
19	MS. BROWN: Objection to the form.	19	or that actual day, but but right around then.
20	THE WITNESS: Are we talking about like	20	Q Okay. Are you aware that I guess it
21	an epidemiologic definition?	21	was just a couple of months earlier that Health
22	BY MS. PARFITT:	22	Canada issued and published a critical review and
		23	
23 24	Q Just generally, what's a risk factor?	24	assessment of the science, which actually included
	MS. BROWN: Objection.		a comprehensive review of the epidemiological
25	THE WITNESS: Well, I don't you said	25	literature? Did you know that?
	Page 263		Page 265
1	generally. It could mean a million things to	1	MR. LOCKE: Objection.
2	different people.	2	MS. BROWN: Objection. That misstates
3	BY MS. PARFITT:	3	the draft assessment.
4	Q What's it mean to you?	4	THE WITNESS: I'm familiar with it.
5	A It depends upon the context. That's why	5	BY MS. PARFITT:
6	I'm asking from like an epidemiologic standpoint	6	Q Okay. Have you read it?
7	as opposed to some other context.	7	A I have.
8	Q Well, let's take mesothelioma. What are	8	Q Have you read it in its entirety?
9	the risk factors for mesothelioma?	9	A I don't remember if there's like
10	A Well, if we're talking about, you know,	10	appendices or something, but I read all the you
11	asbestos, for example, as one risk factor, then	11	know, the mean part of the text.
	<b>▲</b> •	I	•
12	you could use it that way, that that an	12	Q Okay. There is also meta-analysis that
12 13	you could use it that way, that that an exposure elevates the risk of developing a	12 13	Q Okay. There is also meta-analysis that was performed about that same time.
	you could use it that way, that that an exposure elevates the risk of developing a disease.		was performed about that same time.
13 14	exposure elevates the risk of developing a disease.	13	was performed about that same time.  A Yes. Yeah.
13 14 15	exposure elevates the risk of developing a disease.  Q Okay. Let's take talcum powder. Is	13 14	was performed about that same time.  A Yes. Yeah.  Q Have you read that?
13 14 15 16	exposure elevates the risk of developing a disease.  Q Okay. Let's take talcum powder. Is talcum powder a risk factor for ovarian cancer?	13 14 15 16	was performed about that same time.  A Yes. Yeah.  Q Have you read that?  A I have.
13 14 15 16 17	exposure elevates the risk of developing a disease.  Q Okay. Let's take talcum powder. Is talcum powder a risk factor for ovarian cancer?  A I don't believe so.	13 14 15 16 17	was performed about that same time.  A Yes. Yeah. Q Have you read that? A I have. Q Okay. Did Health Canada do what we
13 14 15 16 17 18	exposure elevates the risk of developing a disease.  Q Okay. Let's take talcum powder. Is talcum powder a risk factor for ovarian cancer?  A I don't believe so.  Q Are there risk factors that are	13 14 15 16 17 18	was performed about that same time.  A Yes. Yeah. Q Have you read that? A I have. Q Okay. Did Health Canada do what we would refer to in your world of epidemiology a
13 14 15 16 17 18	exposure elevates the risk of developing a disease.  Q Okay. Let's take talcum powder. Is talcum powder a risk factor for ovarian cancer?  A I don't believe so.  Q Are there risk factors that are modifiable?	13 14 15 16 17 18 19	was performed about that same time.  A Yes. Yeah. Q Have you read that? A I have. Q Okay. Did Health Canada do what we would refer to in your world of epidemiology a causality assessment?
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	Page 266	Page 268
1	MS. BROWN: Objection.	1 fair?
2	THE WITNESS: It looks to me as if they	MS. BROWN: Objection to the form.
3	create well, so I don't know. So they they	THE WITNESS: That looks to be part of
4	have their own process. I don't know anything	what they've included in here.
5	about Health Canada, so I don't know what they	5 BY MS. PARFITT:
6	typically do. You know, I've never it's unlike	Q And you yourself, for purposes of your
7	some other entities where I would kind of	report, looked at case-control studies, cohort
8	understand their process because I've read their	studies, and meta-analyses, correct?
9	things before.	9 A I did.
10		Q Okay. Did Health Canada perform a
11		Bradford Hill assessment of the evidence?
12	* *	12 MS. BROWN: Objection to the form.
13	· · · · · · · · · · · · · · · · · · ·	THE WITNESS: They have a section here.
14		14 I mean, there's something here that that
15		resembles a Bradford Hill analysis.
16	, , ,	16 BY MS. PARFITT:
17		Q Okay. Let me direct your
18	•	MS. BROWN: Take as long as you need,
19	- · · · · · · · · · · · · · · · · · · ·	Doctor, to finish your answer.
20		THE WITNESS: Well, I just like I
21	, ,	don't know I don't know how much leeway there
22	1 /	is in the world for people to say that they did a
23	, , , , , , , , , , , , , , , , , , , ,	Bradford Hill analysis just by listing out certain
24		keywords, right? I mean it's sort of like a word
25	· · · · · · · · · · · · · · · · · · ·	
	Page 267	25 salad exercise to me for some of these cases, and  Page 269
1	Page 267 and and then created the document that I guess	Page 269
1 2	Page 267 and and then created the document that I guess that they put out there for for public comment	Page 269  1 so 2 BY MS. PARFITT:
1 2 3	Page 267 and and then created the document that I guess that they put out there for for public comment of some sort.	Page 269  1 so 2 BY MS. PARFITT: 3 Q I'm sorry. A word what?
1 2 3 4	and and then created the document that I guess that they put out there for for public comment of some sort.  BY MS. PARFITT:	Page 269  So BY MS. PARFITT: Q I'm sorry. A word what? A Word salad.
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1 2 3 4 5 6	and and then created the document that I guess that they put out there for for public comment of some sort.  BY MS. PARFITT:  Q Okay. All right. Let's have marked the Health Canada report, the draft assessment. And we'll have that marked as Exhibit No. 14.	Page 269  So  BY MS. PARFITT:  Q I'm sorry. A word what?  A Word salad.  Q Word salad.  A Yeah. Not a technical term, but it's  kind of a mess, right. So they've got like on
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Gregory B. Diette, M.D.

Page 270 Page 272 Q So let me just ask --1 Did I read that correctly? 23 MS. BROWN: Wait now, he is not done. 2 MS. BROWN: You didn't, and actually you You can follow up when he is done with --3 said "consistently" and the word is "consistent." 4 5 6 7 MS. PARFITT: Fair enough. MS. PARFITT: Thank you. 4 MS. BROWN: Go ahead, Doctor. 5 BY MS. PARFITT: **BY MS. PARFITT:** 6 Q Did I read that correctly with that Q Okay. Crazy. 7 correction? 8 A Okay. Oh, well, they said like in all 8 A Yes. 9 case-control studies reporting positive outcomes, 9 Q Okay. Do you see where the authors 10 the participants recalled the exposure to talc 10 state that, "Further available data are indicative 11 preceded the reported outcome. I mean that is so of a causal effect"? Do you see that? 11 12 far afield from any realistic epidemiologic 12 A I do. 13 principle that to say that that somehow informs a 13 Q Do you agree with Health Canada that 14 Bradford Hill analysis -- I don't know, maybe 14 there was a causal effect drawn from the genital 15 "crazy" is the wrong word. Maybe absurd, maybe use of talcum powder products and ovarian cancer? 15 16 ridiculous. But every person in the world that 16 MS. BROWN: Objection to the form, 17 has a particular event or outcome, everything 17 misstates the draft assessment, lacks foundation. about them preceded them. That isn't the same as 18 18 THE WITNESS: I don't think so, but for 19 temporality. Temporality in the epidemiologic the reason that -- being that this is -- this is 19 20 world is demonstrating that time flowed from the 20 at some level -- maybe it's a summary, I don't 21 time of the exposure. 21 know -- of what they have from above. But their 22 So, that's why I say like -- you know, I 22 input information into what they're concluding 23 read the words here, I see consistency, here is not good. Right. 23 24 specificity, and so forth, but I don't think their 24 I mean look -- look up a couple of 25 application to this is actually a legitimate 25 sentences under "Biologic plausibility," and they Page 271 Page 273 say: "The presence of talc in the ovaries has 1 Bradford Hill analysis. 1 2 Q All right. So it's absurd, it's crazy, 2 been documented," and cite Heller. And they say, 3 and your opinion is that they did not do a proper 3 "The evidence of retrograde transport supports the 4 Bradford Hill analysis. Is that your opinion? 4 biologic plausibility." 5 5 That Heller study doesn't -- doesn't A It is. 6 6 support that, right. So they're -- they're MR. LOCKE: Objection. 7 7 MS. BROWN: Objection to the form. stringing things together here that don't 8 literally support I think a conclusive statement 8 BY MS. PARFITT: 9 Q Okay. All right. Let me direct -- did 9 here. 10 they -- let me direct your attention to page 21. 10 And also I would just say too, that when And we'll put that up on the ELMO. 11 they say that -- that with the last part of that 11 12 part you read where it says that "The hazard 12 All right. Do you see that? Okay? 13 characterization is qualitative in nature," well, 13 A I'm on page 21. Q Page 21, and it's the last paragraph, 14 "qualitative" doesn't tell you something about 14 15 whether it's a strong association. I mean they --15 and I'll read it. 16 "The most recent meta-analysis detailed 16 they've resisted using that -- that word here. 17 above, Taher, et al., 2018, and consistent with 17 BY MS. PARFITT: the Hill criteria, suggests a small but 18 Q Okay. So my question for you, 18 Dr. Diette, is do you disagree with the draft consistently statistically significant positive 19 19 20 association between ovarian cancer and perineal 20 Health Canada assessment which found that there 21 exposure to talc. Further available data are 21 was a causal relationship between the use of 22 indicative of a causal effect. A clear point of 22 genital talcum powder products and ovarian cancer? 23 departure could not be derived from the available 23 MS. BROWN: Objection. That's not what 24 literature. Consequently, hazard characterization 24 the draft assessment --25 is qualitative in nature." 25 MS. PARFITT: Counsel, objection, form.

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talcum powder products used in the genital area
and ovarian cancer? That's the question.
MS. BROWN: Objection to the form of the
question, misstates the document
BY MS. PARFITT:
Q You may answer.
A Is there a specific sentence in there
that says that?
Q It's the question that I've asked you.
A Oh, so I can't answer it. I can answer
the
Q Is there a specific question
MS. BROWN: Wait, wait, let him finish.
BY MS. PARFITT:
Q 20, 21, 28, and Roman numeral iii?
MS. BROWN: What?
THE WITNESS: If there's a specific
sentence that says that, and you want me to agree
or disagree, I can agree or disagree with that
sentence.
What I can't agree with is an entire
document because I think it's not fair. I'm not
talking about just this one. I think, you know,
lawyers like to do this, right. They like to say,
Do you agree with a such-and-such paper. Well,
Page 277
it's nonsense. You don't agree with the paper.
You agree with the finding or you agree with the
conclusion, but not with the entire thing.
So here what I'm saying is, there's an
entire document here. There's some good stuff and
some bad stuff, and I can point out some of
some of each.
But the point here is if there's a
specific statement that they made that says
about causation, I would just like to see that
particular statement and tell you whether I can
agree with it or not.
BY MS. PARFITT:
Q Well, look at page 28 or excuse me,
21, the page we were on.
Do you have that in front of you?
A I do.
Q Okay. "Available data are
indicative"
MS. BROWN: Counsel, where are you?
MS. PARFITT: It's the paragraph just
above "Exposure Assessment." It says the recent
we just read it.
BY MS. PARFITT:
Q "The most recent meta-analysis detailed

	Page 278		Page 280
1	above, Taher, and consistent with the Hill	1	A That sentence is there.
2	criteria, suggests a small but consistent	2	Q All right. Okay.
3	statistically significant positive association	3	MS. BROWN: Counsel, if you're moving to
4	between ovarian cancer and perineal exposure to	4	another area, would
5	talc. Further available data are indicative of a	5	MS. PARFITT: I am.
6	causal effect."	6	MS. BROWN: Would this be a good time
7	MS. BROWN: What's the question?	7	for a break?
8	BY MS. PARFITT:	8	MS. PARFITT: Yeah. I'm going to move
9	Q Do you agree with the conclusions of	9	on and change gears.
10	Health Canada?	10	THE VIDEOGRAPHER: The time is 1:52
11	MS. BROWN: Objection to the form. This	11	p.m., and we are off the record.
12	is not the conclusion section.	12	(Recess.)
13	THE WITNESS: So, first of all, the	13	THE VIDEOGRAPHER: The time is
14	the first sentence that you read there talks about	14	2:04 p.m., and we're back on the record.
15	a significant positive association, which isn't	15	BY MS. PARFITT:
16	the same as cause. Right. And then they say,	16	Q Dr. Diette, you mentioned before the
17	"Further available data are indicative of"	17	break the Heller article, and so I don't misquote
18	I I think if you're trying to say	18	you, what was your position with regard to Heller
19	that something causes something, you come out and	19	and what it stood for?
20	you say it. You don't say, "Further data are	20	A I think if we're talking about the
21	indicative of it." So I I don't think this	21	the right one, it's the one where the ovaries were
22	statement says talcum powder causes ovarian	22	removed from, I think, 24 women, and that 12 12
23	cancer.	23	had said that they were talcum powder users and 12
24	BY MS. PARFITT:	24	not, but they found a they found a similar
	B I MB I I M I I I I		not, out the found a the fround a chimian
25	Q Okay. So your quarrel with Health	25	amount of talc in ovaries regardless of whether
25		25	
	Page 279		Page 281
1	Page 279  Canada is the fact that they didn't say it, Talcum	1	Page 281 they were users or not.
1 2	Page 279  Canada is the fact that they didn't say it, Talcum powder products used in the genital area cause	1 2	Page 281 they were users or not.  Q Okay. Is is it your opinion that
1 2 3	Page 279  Canada is the fact that they didn't say it, Talcum powder products used in the genital area cause ovarian cancer.	1 2 3	Page 281 they were users or not. Q Okay. Is is it your opinion that talc cannot migrate to the ovaries?
1 2 3 4	Page 279  Canada is the fact that they didn't say it, Talcum powder products used in the genital area cause ovarian cancer.  A Well	1 2 3 4	Page 281 they were users or not. Q Okay. Is is it your opinion that talc cannot migrate to the ovaries? A I don't know that it can. I if it's
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	Page 282		Page 284
1	(Counsel conferring.)	1	A And it's about the middle of the
2	BY MS. PARFITT:	2	paragraph, and it says it is it says right
3	Q Do you have that in front of you?	3	above it, it says: "None of the exposed subjects
4	A I do.	4	in the study was directly occupationally exposed
5	Q All right. Now, this was a different	5	but all were passively exposed to household
6	Heller article than the one you were referring to?	6	contact. It is unclear why so many of the women
7	A Thank you, yes.	7	giving no exposure history did have detectible
8	Q Okay. All right. Now, let me direct	8	asbestos in their ovaries, although it is known
9	your attention to the Abstract section, the last	9	that there is a background level of asbestos in
10	paragraph.	10	the lung tissue of non-exposed individuals."
11	Okay. And it states: "This study	11	So I I don't know. I just don't
12	demonstrates that asbestos can reach the ovary.	12	that this this cements the idea that that we
13	Although the number of subjects is small, asbestos	13	know something about how asbestos, you know, can
14	appears to be present in ovarian tissue more	14	get to the ovaries.
15	frequently and in higher amounts in women with a	15	Q All right. Let me direct your attention
16	documentable exposure history."	16	to the bottom of 438, top of 439.
17	Did I read that correctly?	17	At the bottom of 438, it says "There
18	A Yes.	18	is," and then it goes on to the top of 439:
19	Q All right. Do you agree with that	19	"There is evidence of transport of particulate
20	statement?	20	matter into the female perineum by the
21	MS. BROWN: Objection to the form.	21	transvaginal route."
22	THE WITNESS: Give me one sec, because	22	A I apologize, I I'm not with you, and
23	I it's been a while since I looked at this.	23	I just
24	MS. BROWN: Take your time, Doctor.	24	Q Oh, sure.
25	THE WITNESS: (Peruses document.) Yeah,	25	A I'm just trying to
	THE WITNESS. (Foreses document.) Tean,		11 Tim just dying to
	Page 283		Page 285
1	Page 283 again, like so not entirely.	1	Page 285  Q It's right here, upper corner, 439.
1 2		1 2	
	again, like so not entirely.		Q It's right here, upper corner, 439.
2	again, like so not entirely. BY MS. PARFITT:	2	<ul><li>Q It's right here, upper corner, 439.</li><li>A Got you.</li></ul>
2 3	again, like so not entirely. BY MS. PARFITT: Q What part what part	2 3	<ul><li>Q It's right here, upper corner, 439.</li><li>A Got you.</li><li>Q Okay?</li></ul>
2 3 4	again, like so not entirely. BY MS. PARFITT: Q What part what part MS. BROWN: Let him finish.	2 3 4	<ul><li>Q It's right here, upper corner, 439.</li><li>A Got you.</li><li>Q Okay?</li><li>A Yep.</li></ul>
2 3 4 5	again, like so not entirely. BY MS. PARFITT: Q What part what part MS. BROWN: Let him finish. BY MS. PARFITT:	2 3 4 5	<ul> <li>Q It's right here, upper corner, 439.</li> <li>A Got you.</li> <li>Q Okay?</li> <li>A Yep.</li> <li>Q All right, again. "There is evidence of</li> </ul>
2 3 4 5 6	again, like so not entirely. BY MS. PARFITT: Q What part what part MS. BROWN: Let him finish. BY MS. PARFITT: Q What part do you agree with?	2 3 4 5 6	<ul> <li>Q It's right here, upper corner, 439.</li> <li>A Got you.</li> <li>Q Okay?</li> <li>A Yep.</li> <li>Q All right, again. "There is evidence of transport of particulate matter into the female</li> </ul>
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### Case 3:16-md-02738-MAS-RLS Document 9737-8 Filed 05/07/19 Page 198 of 516 PageID: 38898 Gregory B. Diette, M.D.

	Page 286		Page 288
1	prior to '70 1976, Cramer, 1982. The	1	If you know.
2	significance of this detection of talc in the	2	THE WITNESS: Can I assume or
3	majority of exposed women and in all women giving	3	MS. BROWN: No, if you don't know, don't
4	no exposure history is unclear and further studies	4	answer. Then you have no basis to answer the
5	are underway to further elucidate this question."	5	question.
6	Did I read that correctly?	6	BY MS. PARFITT:
7	A Yes.	7	Q My question is, do you know what Ken
8	Q Question: Are there chemical	8	Rothman's area of expertise is?
9	similarities between cosmetic talcs and asbestos?	9	MS. BROWN: Objection.
10	MS. BROWN: Objection to the form.	10	THE WITNESS: Well, he's he's made a
11	THE WITNESS: So some of the same	11	career out of out of case-control studies and
12	some of the same features chemically are present	12	articulating, you know, features of the design and
13	in both.	13	so forth.
14	BY MS. PARFITT:	14	BY MS. PARFITT:
15	Q All right. Set that aside for a minute.	15	Q All right. Is he an epidemiologist?
16	We may come back to that.	16	A Well, that's what I was trying to
17	Dr. Diette, for purposes of your	17	remember. Like, I would only be guessing. Like,
18	opinions in this case, you have stated that the	18	I assume for him to be in that role, he would be,
19	cohort studies lack statistical significance, and	19	but there are people that come to epidemiology
20	only a subset of the case-control studies are	20	from other you know, other backgrounds, and so
21	statistically significant. Therefore, there is a	21	I just don't know his credentials.
22	disparity and inconsistency between cohorts and	22	Q Okay. What about Sander Greenland, do
23	case control.	23	you know who he is?
24	Have I summed it up pretty well?	24	A I know the name, but I don't know him.
25	A That that's one of the one of the	25	Q Okay. Have you ever do you know what
	Page 287		Page 289
1	Page 287 bits of evidence of inconsistency.	1	Page 289 kind of scientist Sander Greenland is?
1 2		1 2	
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	Page 290		Page 292
1	Dr. Diette, that this is Chapter 2 out of the	1	MS. BROWN: I have a continuing
2	Third Edition, Modern Epidemiology.	2	foundation.
3	Do you see that?	3	MS. PARFITT: That's fine, Counsel.
4	A I do.	4	MS. BROWN: objection to this
5	Q Okay. And if you look at the front of	5	exhibit, for which no foundation has been laid.
6	it, it has three authors.	6	BY MS. PARFITT:
7	Do you see that?	7	Q All right. Again, I'm referring to the
8	A I do.	8	category consistency which I represent that is in
9	Q Okay. The first one is Ken Rothman. Do	9	Chapter 2 of the Rothman book, and we can just go
10	you see that?	10	ahead and circle the paragraph that starts: "One
11	A Correct.	11	mistake in implementing the consistency criterion
12	Q The second one is Sander Greenland.	12	is so common that it deserves special mention. It
13	A Correct.	13	is sometimes claimed that a literature or set of
14	Q And the third author is Tim Lash. Do	14	results is inconsistent simply because some
15	you see that?	15	results are statistically significant, and some
16	A I do.	16	are not."
17	Q And they are the book that they have	17	Did I read that correctly?
18	authored is called Modern Epidemiology, Third	18	A You did.
19	Edition. Do you see that?	19	Q "This sort of evaluation is completely
20	A I do.	20	fallacious, even if one accepts the use of
21	Q Okay. Let me let me direct your	21	significant testing methods."
22	attention to page 27.	22	Did I read that correctly?
23	MS. BROWN: Counsel, are you going to	23	A You did.
24	lay a foundation for the use of this document?	24	Q All right. Do you agree with that
25	MS. PARFITT: I can just ask a question.	25	statement?
	MS. PARFITT: I can just ask a question.  Page 291	25	
		25	statement?  Page 293
25	Page 291		statement?  Page 293  MR. LOCKE: Objection.
25	Page 291 I can do that.	1	statement?  Page 293  MR. LOCKE: Objection.  THE WITNESS: So wait a minute, I just
25 1 2	Page 291 I can do that. BY MS. PARFITT: Q Let me ask a question.	1 2	Page 293  MR. LOCKE: Objection.  THE WITNESS: So wait a minute, I just want to so there's a couple of statements
1 2 3	Page 291 I can do that. BY MS. PARFITT:	1 2 3	MR. LOCKE: Objection.  THE WITNESS: So wait a minute, I just want to so there's a couple of statements there. I think the part that makes it agreeable
1 2 3 4	Page 291 I can do that. BY MS. PARFITT: Q Let me ask a question. "To claim that literature, scientific literature, or a set of results reported in	1 2 3 4	MR. LOCKE: Objection.  THE WITNESS: So wait a minute, I just want to so there's a couple of statements there. I think the part that makes it agreeable is to say that that if it's claimed that
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25 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	I can do that. BY MS. PARFITT:  Q Let me ask a question.  "To claim that literature, scientific literature, or a set of results reported in scientific literature is inconsistent simply because some results are statistically significant, and some are not, would be completely fallacious, even if one accepts the use of significant testing methods."  Do you agree with that statement?  MR. LOCKE: Objection.  MS. BROWN: Objection. Form, foundation.  THE WITNESS: Is that a hybrid of a couple of things? Because I thought I was reading with you, and then I might have left off. BY MS. PARFITT:  Q Well, why don't we do this. We'll put it back on the ELMO, and I'll represent that it is a	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. LOCKE: Objection. THE WITNESS: So wait a minute, I just want to so there's a couple of statements there. I think the part that makes it agreeable is to say that that if it's claimed that results are and I'm paraphrasing BY MS. PARFITT: Q Sure. A but that the results are inconsistent simply, and the word "simply" to me is really important here because it suggests that somebody would be not looking at the entire universe of evidence that they have available. So I think if you just took a quick look at studies and said some were significant and some weren't and left it at that, you know, it's a pretty strong statement, but I think I think that would be a mistake to only do that. Q All right. Now, you're not a statistician, correct? A I'm not a statistician. Q Okay. And you're not a biostatistician.

74 (Pages 290 to 293)

	Page 294		Page 296
1	Q Okay. Who is Daniel Ford?	1	Q Do you know about that?
2	A If it's the one that	2	A I'm aware of that.
3	Q Daniel E. Ford.	3	Q Okay. Now, are you did you read
4	A I don't know his middle name, but	4	Dr. Bowman's deposition?
5	there's a Dan Ford at our at our place.	5	A I did.
6	Q Okay. Is the Dan Ford you know vice	6	Q Okay. Did you see that in Dr. Bowman's
7	dean for clinical investigation, Johns Hopkins	7	deposition?
8	School of Medicine?	8	A I saw I'm just trying to remember. I
9	A Yes.	9	saw the Nature article, I think that is more
10	Q Okay. Is he a friend of yours?	10	recently published than you said 2016?
11	A We're friendly. I mean, we don't hang	11	Q Originally, yes.
12	out, though.	12	A Yeah, but I can't remember if 2016 was
13	Q Now, he is with the Institute for	13	in her deposition, but for sure the more recent
14	Clinical and Translational Research; is that	14	one.
15	correct?	15	Q The one in 2019?
16	A He has been. I'm just trying to think	16	A Exactly right, yeah.
17	if that still exists. Because I know there was a	17	Q All right. All right. Let me show you
18	funding issue, so but he he certainly was in	18	then what's been marked as or will be marked as
19	that role, and he may still be.	19	17. And it is the March 2019
20	Q He may what?	20	(Counsel conferring.)
21	A He may still be. I just I just I	21	BY MS. PARFITT:
22	thought I had heard that the ICTRs were going to	22	Q Okay. Let me show you what we will have
23	be not funded anymore.	23	marked as 17, a study that appeared in The
24	Q Okay.	24	American Statistician in 2019. It's Volume 73,
25	A Maybe it's true, maybe not; but I'm just	25	and it's called "Moving to a World Beyond P <
	Page 295		Page 297
1	saying for sure he was part of that.	1	0.05."
2	saying for sure he was part of that.  Q Mm-hmm. Okay. Sure. Okay.	2	0.05."  Do you see that?
2	saying for sure he was part of that.  Q Mm-hmm. Okay. Sure. Okay.  All right. Are you a member and I'm	2 3	0.05."  Do you see that?  A Actually, I was just sort of flipping
2 3 4	saying for sure he was part of that.  Q Mm-hmm. Okay. Sure. Okay.  All right. Are you a member and I'm assuming you're not because you're not a	2 3 4	0.05."  Do you see that?  A Actually, I was just sort of flipping through to see what I'm looking at. Oh, so the
2 3 4 5	saying for sure he was part of that.  Q Mm-hmm. Okay. Sure. Okay.  All right. Are you a member and I'm assuming you're not because you're not a statistician, but I should assume nothing.	2 3 4 5	0.05."  Do you see that?  A Actually, I was just sort of flipping through to see what I'm looking at. Oh, so the title, yes.
2 3 4 5 6	saying for sure he was part of that.  Q Mm-hmm. Okay. Sure. Okay.  All right. Are you a member and I'm assuming you're not because you're not a statistician, but I should assume nothing.  Are you a member of the American	2 3 4 5 6	O.05."  Do you see that?  A Actually, I was just sort of flipping through to see what I'm looking at. Oh, so the title, yes.  Q Okay. Is this a document you were
2 3 4 5 6 7	saying for sure he was part of that.  Q Mm-hmm. Okay. Sure. Okay.  All right. Are you a member and I'm assuming you're not because you're not a statistician, but I should assume nothing.  Are you a member of the American Statistical Association?	2 3 4 5 6 7	O.05."  Do you see that?  A Actually, I was just sort of flipping through to see what I'm looking at. Oh, so the title, yes.  Q Okay. Is this a document you were referring to?
2 3 4 5 6 7 8	saying for sure he was part of that.  Q Mm-hmm. Okay. Sure. Okay.  All right. Are you a member and I'm assuming you're not because you're not a statistician, but I should assume nothing.  Are you a member of the American Statistical Association?  A I am not.	2 3 4 5 6 7 8	O.05."  Do you see that?  A Actually, I was just sort of flipping through to see what I'm looking at. Oh, so the title, yes.  Q Okay. Is this a document you were referring to?  A No.
2 3 4 5 6 7 8 9	saying for sure he was part of that.  Q Mm-hmm. Okay. Sure. Okay.  All right. Are you a member and I'm assuming you're not because you're not a statistician, but I should assume nothing.  Are you a member of the American Statistical Association?  A I am not.  Q Okay. Do you know who they are?	2 3 4 5 6 7 8	O.05."  Do you see that?  A Actually, I was just sort of flipping through to see what I'm looking at. Oh, so the title, yes.  Q Okay. Is this a document you were referring to?  A No.  Q No?
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2 3 4 5 6 7 8 9 10	saying for sure he was part of that.  Q Mm-hmm. Okay. Sure. Okay.  All right. Are you a member and I'm assuming you're not because you're not a statistician, but I should assume nothing.  Are you a member of the American Statistical Association?  A I am not.  Q Okay. Do you know who they are?  A Not not really. I mean, it it sounds like the name gives them away, but I	2 3 4 5 6 7 8 9 10	Do you see that?  A Actually, I was just sort of flipping through to see what I'm looking at. Oh, so the title, yes.  Q Okay. Is this a document you were referring to?  A No.  Q No?  A I was referring to the one in Nature that I think reports about this.
2 3 4 5 6 7 8 9	saying for sure he was part of that.  Q Mm-hmm. Okay. Sure. Okay.  All right. Are you a member and I'm assuming you're not because you're not a statistician, but I should assume nothing.  Are you a member of the American Statistical Association?  A I am not.  Q Okay. Do you know who they are?  A Not not really. I mean, it it sounds like the name gives them away, but I don't I don't know, you know, who they are as	2 3 4 5 6 7 8 9 10 11	Do you see that?  A Actually, I was just sort of flipping through to see what I'm looking at. Oh, so the title, yes.  Q Okay. Is this a document you were referring to?  A No.  Q No?  A I was referring to the one in Nature that I think reports about this.  Q Yes. Okay. Let's go ahead and get that
2 3 4 5 6 7 8 9 10 11 12 13	saying for sure he was part of that.  Q Mm-hmm. Okay. Sure. Okay.  All right. Are you a member and I'm assuming you're not because you're not a statistician, but I should assume nothing.  Are you a member of the American Statistical Association?  A I am not.  Q Okay. Do you know who they are?  A Not not really. I mean, it it sounds like the name gives them away, but I don't I don't know, you know, who they are as an entity otherwise.	2 3 4 5 6 7 8 9 10 11 12	Do you see that?  A Actually, I was just sort of flipping through to see what I'm looking at. Oh, so the title, yes.  Q Okay. Is this a document you were referring to?  A No.  Q No?  A I was referring to the one in Nature that I think reports about this.  Q Yes. Okay. Let's go ahead and get that marked, and we'll talk about all three.
2 3 4 5 6 7 8 9 10 11 12 13 14	saying for sure he was part of that.  Q Mm-hmm. Okay. Sure. Okay.  All right. Are you a member and I'm assuming you're not because you're not a statistician, but I should assume nothing.  Are you a member of the American Statistical Association?  A I am not.  Q Okay. Do you know who they are?  A Not not really. I mean, it it sounds like the name gives them away, but I don't I don't know, you know, who they are as an entity otherwise.  Q That's fair. Okay.	2 3 4 5 6 7 8 9 10 11 12 13	Do you see that?  A Actually, I was just sort of flipping through to see what I'm looking at. Oh, so the title, yes.  Q Okay. Is this a document you were referring to?  A No.  Q No?  A I was referring to the one in Nature that I think reports about this.  Q Yes. Okay. Let's go ahead and get that marked, and we'll talk about all three.  (Diette Exhibit No. 17 was marked)
2 3 4 5 6 7 8 9 10 11 12 13	saying for sure he was part of that.  Q Mm-hmm. Okay. Sure. Okay.  All right. Are you a member and I'm assuming you're not because you're not a statistician, but I should assume nothing.  Are you a member of the American Statistical Association?  A I am not.  Q Okay. Do you know who they are?  A Not not really. I mean, it it sounds like the name gives them away, but I don't I don't know, you know, who they are as an entity otherwise.  Q That's fair. Okay.  Are you aware that due to a widespread	2 3 4 5 6 7 8 9 10 11 12 13 14	Do you see that?  A Actually, I was just sort of flipping through to see what I'm looking at. Oh, so the title, yes.  Q Okay. Is this a document you were referring to?  A No.  Q No?  A I was referring to the one in Nature that I think reports about this.  Q Yes. Okay. Let's go ahead and get that marked, and we'll talk about all three.  (Diette Exhibit No. 17 was marked for identification.)
2 3 4 5 6 7 8 9 10 11 12 13 14	saying for sure he was part of that.  Q Mm-hmm. Okay. Sure. Okay. All right. Are you a member and I'm assuming you're not because you're not a statistician, but I should assume nothing. Are you a member of the American Statistical Association? A I am not. Q Okay. Do you know who they are? A Not not really. I mean, it it sounds like the name gives them away, but I don't I don't know, you know, who they are as an entity otherwise. Q That's fair. Okay. Are you aware that due to a widespread misuse by scientists and researchers regarding	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Do you see that?  A Actually, I was just sort of flipping through to see what I'm looking at. Oh, so the title, yes.  Q Okay. Is this a document you were referring to?  A No.  Q No?  A I was referring to the one in Nature that I think reports about this.  Q Yes. Okay. Let's go ahead and get that marked, and we'll talk about all three.  (Diette Exhibit No. 17 was marked for identification.)  MS. PARFITT: Let's have marked as
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	saying for sure he was part of that.  Q Mm-hmm. Okay. Sure. Okay. All right. Are you a member and I'm assuming you're not because you're not a statistician, but I should assume nothing. Are you a member of the American Statistical Association? A I am not. Q Okay. Do you know who they are? A Not not really. I mean, it it sounds like the name gives them away, but I don't I don't know, you know, who they are as an entity otherwise. Q That's fair. Okay. Are you aware that due to a widespread misuse by scientists and researchers regarding statistical significance and p-values, that the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Do you see that?  A Actually, I was just sort of flipping through to see what I'm looking at. Oh, so the title, yes.  Q Okay. Is this a document you were referring to?  A No.  Q No?  A I was referring to the one in Nature that I think reports about this.  Q Yes. Okay. Let's go ahead and get that marked, and we'll talk about all three.  (Diette Exhibit No. 17 was marked for identification.)  MS. PARFITT: Let's have marked as Exhibit No. 18.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	saying for sure he was part of that.  Q Mm-hmm. Okay. Sure. Okay.  All right. Are you a member and I'm assuming you're not because you're not a statistician, but I should assume nothing.  Are you a member of the American Statistical Association?  A I am not.  Q Okay. Do you know who they are?  A Not not really. I mean, it it sounds like the name gives them away, but I don't I don't know, you know, who they are as an entity otherwise.  Q That's fair. Okay.  Are you aware that due to a widespread misuse by scientists and researchers regarding statistical significance and p-values, that the American Statistical Association issued a	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Do you see that?  A Actually, I was just sort of flipping through to see what I'm looking at. Oh, so the title, yes.  Q Okay. Is this a document you were referring to?  A No.  Q No?  A I was referring to the one in Nature that I think reports about this.  Q Yes. Okay. Let's go ahead and get that marked, and we'll talk about all three.  (Diette Exhibit No. 17 was marked for identification.)  MS. PARFITT: Let's have marked as Exhibit No. 18.  (Diette Exhibit No. 18 was marked
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	saying for sure he was part of that.  Q Mm-hmm. Okay. Sure. Okay.  All right. Are you a member and I'm assuming you're not because you're not a statistician, but I should assume nothing.  Are you a member of the American Statistical Association?  A I am not.  Q Okay. Do you know who they are?  A Not not really. I mean, it it sounds like the name gives them away, but I don't I don't know, you know, who they are as an entity otherwise.  Q That's fair. Okay.  Are you aware that due to a widespread misuse by scientists and researchers regarding statistical significance and p-values, that the American Statistical Association issued a statement back in 2016 warning the scientific	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Do you see that?  A Actually, I was just sort of flipping through to see what I'm looking at. Oh, so the title, yes.  Q Okay. Is this a document you were referring to?  A No.  Q No?  A I was referring to the one in Nature that I think reports about this.  Q Yes. Okay. Let's go ahead and get that marked, and we'll talk about all three.  (Diette Exhibit No. 17 was marked for identification.)  MS. PARFITT: Let's have marked as Exhibit No. 18.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	saying for sure he was part of that.  Q Mm-hmm. Okay. Sure. Okay.  All right. Are you a member and I'm assuming you're not because you're not a statistician, but I should assume nothing.  Are you a member of the American Statistical Association?  A I am not.  Q Okay. Do you know who they are?  A Not not really. I mean, it it sounds like the name gives them away, but I don't I don't know, you know, who they are as an entity otherwise.  Q That's fair. Okay.  Are you aware that due to a widespread misuse by scientists and researchers regarding statistical significance and p-values, that the American Statistical Association issued a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Do you see that?  A Actually, I was just sort of flipping through to see what I'm looking at. Oh, so the title, yes.  Q Okay. Is this a document you were referring to?  A No. Q No?  A I was referring to the one in Nature that I think reports about this.  Q Yes. Okay. Let's go ahead and get that marked, and we'll talk about all three.  (Diette Exhibit No. 17 was marked for identification.)  MS. PARFITT: Let's have marked as Exhibit No. 18.  (Diette Exhibit No. 18 was marked
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	saying for sure he was part of that.  Q Mm-hmm. Okay. Sure. Okay.  All right. Are you a member and I'm assuming you're not because you're not a statistician, but I should assume nothing.  Are you a member of the American Statistical Association?  A I am not.  Q Okay. Do you know who they are?  A Not not really. I mean, it it sounds like the name gives them away, but I don't I don't know, you know, who they are as an entity otherwise.  Q That's fair. Okay.  Are you aware that due to a widespread misuse by scientists and researchers regarding statistical significance and p-values, that the American Statistical Association issued a statement back in 2016 warning the scientific	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Do you see that?  A Actually, I was just sort of flipping through to see what I'm looking at. Oh, so the title, yes.  Q Okay. Is this a document you were referring to?  A No.  Q No?  A I was referring to the one in Nature that I think reports about this.  Q Yes. Okay. Let's go ahead and get that marked, and we'll talk about all three.  (Diette Exhibit No. 17 was marked for identification.)  MS. PARFITT: Let's have marked as Exhibit No. 18.  (Diette Exhibit No. 18 was marked for identification.)  BY MS. PARFITT:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	saying for sure he was part of that.  Q Mm-hmm. Okay. Sure. Okay.  All right. Are you a member and I'm assuming you're not because you're not a statistician, but I should assume nothing.  Are you a member of the American Statistical Association?  A I am not.  Q Okay. Do you know who they are?  A Not not really. I mean, it it sounds like the name gives them away, but I don't I don't know, you know, who they are as an entity otherwise.  Q That's fair. Okay.  Are you aware that due to a widespread misuse by scientists and researchers regarding statistical significance and p-values, that the American Statistical Association issued a statement back in 2016 warning the scientific community of this misuse and urging them to cease	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Do you see that?  A Actually, I was just sort of flipping through to see what I'm looking at. Oh, so the title, yes.  Q Okay. Is this a document you were referring to?  A No.  Q No?  A I was referring to the one in Nature that I think reports about this.  Q Yes. Okay. Let's go ahead and get that marked, and we'll talk about all three.  (Diette Exhibit No. 17 was marked for identification.)  MS. PARFITT: Let's have marked as Exhibit No. 18.  (Diette Exhibit No. 18 was marked for identification.)  BY MS. PARFITT:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	saying for sure he was part of that.  Q Mm-hmm. Okay. Sure. Okay.  All right. Are you a member and I'm assuming you're not because you're not a statistician, but I should assume nothing.  Are you a member of the American Statistical Association?  A I am not.  Q Okay. Do you know who they are?  A Not not really. I mean, it it sounds like the name gives them away, but I don't I don't know, you know, who they are as an entity otherwise.  Q That's fair. Okay.  Are you aware that due to a widespread misuse by scientists and researchers regarding statistical significance and p-values, that the American Statistical Association issued a statement back in 2016 warning the scientific community of this misuse and urging them to cease and desist with the p-value?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Do you see that?  A Actually, I was just sort of flipping through to see what I'm looking at. Oh, so the title, yes.  Q Okay. Is this a document you were referring to?  A No.  Q No?  A I was referring to the one in Nature that I think reports about this.  Q Yes. Okay. Let's go ahead and get that marked, and we'll talk about all three.  (Diette Exhibit No. 17 was marked for identification.)  MS. PARFITT: Let's have marked as Exhibit No. 18.  (Diette Exhibit No. 18 was marked for identification.)  BY MS. PARFITT:  Q And I will represent that 18 is a Sander
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	saying for sure he was part of that.  Q Mm-hmm. Okay. Sure. Okay.  All right. Are you a member and I'm assuming you're not because you're not a statistician, but I should assume nothing.  Are you a member of the American Statistical Association?  A I am not.  Q Okay. Do you know who they are?  A Not not really. I mean, it it sounds like the name gives them away, but I don't I don't know, you know, who they are as an entity otherwise.  Q That's fair. Okay.  Are you aware that due to a widespread misuse by scientists and researchers regarding statistical significance and p-values, that the American Statistical Association issued a statement back in 2016 warning the scientific community of this misuse and urging them to cease and desist with the p-value?  MR. LOCKE: Objection.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Do you see that?  A Actually, I was just sort of flipping through to see what I'm looking at. Oh, so the title, yes.  Q Okay. Is this a document you were referring to?  A No.  Q No?  A I was referring to the one in Nature that I think reports about this.  Q Yes. Okay. Let's go ahead and get that marked, and we'll talk about all three.  (Diette Exhibit No. 17 was marked for identification.)  MS. PARFITT: Let's have marked as Exhibit No. 18.  (Diette Exhibit No. 18 was marked for identification.)  BY MS. PARFITT:  Q And I will represent that 18 is a Sander Greenland article that appeared in Nature on

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	Page 298		Page 300
1	A Yes.	1	MS. BROWN: before you ask him any
2	Q Okay. Have you had an opportunity to	2	questions about it.
3	read Exhibit No. 18?	3	BY MS. PARFITT:
4	A I have.	4	Q I just have a couple of questions about
5	Q Okay. Exhibit 17, which is the	5	it.
6	Wasserstein article, have you had an opportunity	6	MS. BROWN: Take as long as you need.
7	to read it prior to today?	7	THE WITNESS: (Peruses document.)
8	A This this one, no.	8	BY MS. PARFITT:
9	Q Okay. All right. Let's first take a	9	Q And I just have a couple of questions
10	moment and discuss what's been marked as 18.	10	about it.
11	Excuse me. No, 18. 18.	11	A Sure.
12	Are you aware that due to the American	12	MS. BROWN: He's never seen it, so he
13	Statistical Society's concern of the misuse of	13	needs
14	statistical significance and p-value, that they	14	MS. PARFITT: That's fine.
15	literally used their March 2019 research paper and	15	MS. BROWN: as long as he needs.
16	devoted attention to this issue and attached	16	MS. PARFITT: He can take yeah.
17	almost 40 papers on statistical inference? Are	17	THE WITNESS: Well, I won't be able to
18	you aware of that?	18	read it in
19	MR. LOCKE: Objection.	19	BY MS. PARFITT:
20	MS. BROWN: Objection to the form,	20	Q Okay. Let me just
21	misstates the facts. Are you referring to	21	A in realtime today.
22	Exhibit 17?	22	Q ask you a couple of questions. I'm
23	MS. PARFITT: No. 17. 17.	23	not expecting you to digest it.
		24	All right. The first paragraph, it
24	MS. BROWN: Yes, 17.	25	says do you have it up there?
25	MS. PARFITT: No, I'm not referring to	23	says do you have it up there:
	Page 299		Page 301
1	that at all. I'm just I'm asking a question.	1	"Some of you exploring this special
2	MS. BROWN: Objection. Lacks	2	issue of The American Statistician might be
3	foundation, misstates the facts.	3	wondering if it's a scolding from the pedantic
4	THE WITNESS: I saw that there was a	4	statisticians lecturing you about what not to do
5	a journal issue that had many articles. I	5	with p-values, without offering any real ideas of
6	didn't I don't know what the count was, but	6	what to do about the very hard problem separating
7	there it's probably the same thing we're	7	signal from noise in data and making decisions
8	talking about, but I'm not sure.	8	under uncertainty. Fear not, in this issue,
9	BY MS. PARFITT:	9	thanks to 43 innovative and thought-provoking
10	Q Okay. Did you have a chance to read	10	papers from forward-looking statisticians, help is
10 11	Q Okay. Did you have a chance to read those 40 or so articles?	10 11	
	those 40 or so articles?		on the way."
11 12	those 40 or so articles?  MS. BROWN: Objection to the form.	11	on the way."  Do you see that?
11 12 13	those 40 or so articles?  MS. BROWN: Objection to the form.  THE WITNESS: I I wish I had that	11 12	on the way."  Do you see that?  A I do.
11 12 13 14	those 40 or so articles?  MS. BROWN: Objection to the form.  THE WITNESS: I I wish I had that kind of time, but	11 12 13 14	on the way."  Do you see that?  A I do.  Q Okay. Did I read that correctly?
11 12 13 14 15	those 40 or so articles?  MS. BROWN: Objection to the form.  THE WITNESS: I I wish I had that kind of time, but BY MS. PARFITT:	11 12 13 14 15	on the way."  Do you see that?  A I do.  Q Okay. Did I read that correctly?  A You did.
11 12 13 14 15	those 40 or so articles?  MS. BROWN: Objection to the form.  THE WITNESS: I I wish I had that kind of time, but  BY MS. PARFITT:  Q You and me both.	11 12 13 14 15 16	on the way."  Do you see that?  A I do.  Q Okay. Did I read that correctly?  A You did.  Q And is that the 43 papers that you were
11 12 13 14 15 16	those 40 or so articles?  MS. BROWN: Objection to the form.  THE WITNESS: I I wish I had that kind of time, but BY MS. PARFITT:  Q You and me both.  A Yeah.	11 12 13 14 15 16 17	on the way."  Do you see that?  A I do.  Q Okay. Did I read that correctly?  A You did.  Q And is that the 43 papers that you were speaking of that you didn't have time to read?
11 12 13 14 15 16 17	those 40 or so articles?  MS. BROWN: Objection to the form.  THE WITNESS: I I wish I had that kind of time, but BY MS. PARFITT:  Q You and me both.  A Yeah.  Q Okay. All right. Let's stay a few	11 12 13 14 15 16 17 18	on the way."  Do you see that?  A I do.  Q Okay. Did I read that correctly?  A You did.  Q And is that the 43 papers that you were speaking of that you didn't have time to read?  MS. BROWN: Objection to the form, lacks
11 12 13 14 15 16 17 18	those 40 or so articles?  MS. BROWN: Objection to the form.  THE WITNESS: I I wish I had that kind of time, but BY MS. PARFITT:  Q You and me both.  A Yeah.  Q Okay. All right. Let's stay a few minutes on 17, and we'll put it up on the ELMO.	11 12 13 14 15 16 17 18	on the way."  Do you see that?  A I do.  Q Okay. Did I read that correctly?  A You did.  Q And is that the 43 papers that you were speaking of that you didn't have time to read?  MS. BROWN: Objection to the form, lacks foundation.
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11 12 13 14 15 16 17 18 19 20 21	those 40 or so articles?  MS. BROWN: Objection to the form.  THE WITNESS: I I wish I had that kind of time, but BY MS. PARFITT:  Q You and me both.  A Yeah.  Q Okay. All right. Let's stay a few minutes on 17, and we'll put it up on the ELMO.  And it starts MS. BROWN: Counsel, he's never seen 17	11 12 13 14 15 16 17 18 19 20 21	on the way."  Do you see that?  A I do.  Q Okay. Did I read that correctly?  A You did.  Q And is that the 43 papers that you were speaking of that you didn't have time to read?  MS. BROWN: Objection to the form, lacks foundation.  THE WITNESS: I I think so. I mean, this sounds familiar. I think it's what I was
11 12 13 14 15 16 17 18 19 20 21	those 40 or so articles?  MS. BROWN: Objection to the form.  THE WITNESS: I I wish I had that kind of time, but BY MS. PARFITT:  Q You and me both.  A Yeah.  Q Okay. All right. Let's stay a few minutes on 17, and we'll put it up on the ELMO.  And it starts  MS. BROWN: Counsel, he's never seen 17 before, so he's going to need a minute to	11 12 13 14 15 16 17 18 19 20 21 22	on the way."  Do you see that?  A I do.  Q Okay. Did I read that correctly?  A You did.  Q And is that the 43 papers that you were speaking of that you didn't have time to read?  MS. BROWN: Objection to the form, lacks foundation.  THE WITNESS: I I think so. I mean, this sounds familiar. I think it's what I was looking at, but I'm not not a hundred percent
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11 12 13 14 15 16 17 18 19 20 21 22	those 40 or so articles?  MS. BROWN: Objection to the form.  THE WITNESS: I I wish I had that kind of time, but BY MS. PARFITT:  Q You and me both.  A Yeah.  Q Okay. All right. Let's stay a few minutes on 17, and we'll put it up on the ELMO.  And it starts  MS. BROWN: Counsel, he's never seen 17 before, so he's going to need a minute to	11 12 13 14 15 16 17 18 19 20 21 22	on the way."  Do you see that?  A I do.  Q Okay. Did I read that correctly?  A You did.  Q And is that the 43 papers that you were speaking of that you didn't have time to read?  MS. BROWN: Objection to the form, lacks foundation.  THE WITNESS: I I think so. I mean, this sounds familiar. I think it's what I was looking at, but I'm not not a hundred percent

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	Page 302		Page 304
1	"Don't' is Not Enough." Do you see that?	1	statistical significance or lack thereof."
2	A Yes.	2	Do you agree with that statement?
3	Q All right. The first sentence says:	3	MS. BROWN: Objection to the form.
4	"There's not much we can say here about the perils	4	And, Doctor, if you need to read the
5	of p-values and significance testing that hasn't	5	whole article to answer these questions
6	already that hasn't been said already for	6	MS. PARFITT: Counsel, don't coach the
7	decades."	7	witness.
8	Did I read that correctly?	8	MS. BROWN: you should do that.
9	A Yes.	9	Yeah, but you are knowingly
10	Q And then it goes down to the first one:	10	BY MS. PARFITT:
11	"Don't base your conclusions solely on whether an	11	Q Go ahead, Doctor.
12	association or effect was found to be	12	MS. BROWN: putting a document in
13	statistically significant. The p-value passed	13	front of him that he's never seen, so we're not
14	some arbitrary threshold such as $p < 0.05$ ."	14	going to sit here
15	Did I read that correctly?	15	BY MS. PARFITT:
16	A Yes.	16	Q I'm asking you a question, Dr. Diette
17	Q Do you agree with that statement?	17	MS. BROWN: and play cherry-
18	MR. LOCKE: Objection.	18	picking statements to get
19	THE WITNESS: So there's a lot to this,	19	BY MS. PARFITT:
20	right. I mean because, I mean, the lead in to it,	20	Q do you agree that one should not
21	it says it says that there's not much to say	21	conclude anything about scientific or practical
22	here, you know	22	importance based on statistical significance or
23	BY MS. PARFITT:	23	lack thereof? Do you agree with that?
24	Q That hasn't been said.	24	MR. LOCKE: Objection.
25	A hasn't been said for decades.	25	MS. BROWN: Same objection.
	Page 303		Page 305
_			
1	MS. BROWN: Wait, wait, let him finish.	1	THE WITNESS: So, anyway, I think by
1 2	MS. BROWN: Wait, wait, let him finish. THE WITNESS: And and that's	1 2	THE WITNESS: So, anyway, I think by saying "don't conclude anything," I think makes
	THE WITNESS: And and that's		saying "don't conclude anything," I think makes
2	THE WITNESS: And and that's that's pretty well, I can't say it's true	2	
2 3	THE WITNESS: And and that's that's pretty well, I can't say it's true because I haven't read this, so I don't know	2 3	saying "don't conclude anything," I think makes this not a very agreeable statement for me. BY MS. PARFITT:
2 3 4	THE WITNESS: And and that's that's pretty well, I can't say it's true	2 3 4	saying "don't conclude anything," I think makes this not a very agreeable statement for me.
2 3 4 5	THE WITNESS: And and that's that's pretty well, I can't say it's true because I haven't read this, so I don't know what's in here, but the debate about p-values and statistical significance isn't brand new. I mean,	2 3 4 5	saying "don't conclude anything," I think makes this not a very agreeable statement for me. BY MS. PARFITT: Q Okay. All right. Let's turn to what
2 3 4 5 6	THE WITNESS: And and that's that's pretty well, I can't say it's true because I haven't read this, so I don't know what's in here, but the debate about p-values and	2 3 4 5 6	saying "don't conclude anything," I think makes this not a very agreeable statement for me. BY MS. PARFITT:  Q Okay. All right. Let's turn to what you did read, and that's Exhibit 18.
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	Page 306		Page 308
1	did not. These errors waste research efforts and	1	is that correct?
2	misinform policy decisions."	2	A I didn't.
3	Did I read that correctly?	3	MS. BROWN: Asked and answered.
4	A You did.	4	BY MS. PARFITT:
5	Q Do you agree with that?	5	Q All right. Now, let me have marked now
6	MS. BROWN: Objection to the form.	6	as Exhibit No. 19.
7	MR. LOCKE: Objection.	7	(Diette Exhibit No. 19 was marked
8	THE WITNESS: To me it's overly broad,	8	for identification.)
9	and I think that I think that if we go through	9	BY MS. PARFITT:
10	and we find a sentence or two in here that are	10	Q Do you have that, Doctor?
11	agreeable or not, there's a there's a much,	11	Take a look at that, if you will.
12	much bigger proposition here about what's going	12	A (Peruses document.) So is this meant to
13	on, and I don't think it boils down to any one of	13	be a couple of things?
14	these sentences.	14	Q It's two things. I will represent to
15	And I think this looks like a passionate	15	you that the face sheet states "Johns Hopkins
16	opinion piece, right. That's calling it an	16	Institute for Clinical and Translational
17	article, but it's a commentary. And, you know,	17	Research." The American Statistician special
18	these guys might believe that, but I don't I	18	issue, "Moving to a World Beyond P < 0.05." It's
19	don't think it's a mainstream view, and it's not	19	dated March 25, 2019. It has The American
20	my view, you know, without any qualifications	20	Statistician on the side.
21	that that that statement is correct either.	21	A What are we I'm confused, though.
22	Q Okay. Are you aware that over 800	22	This is this is Exhibit 17 with something
23	statisticians and scientists signed on to this	23	attached to it or
24	document to push the concept of abandoning	24	Q You know, that's exactly it. And if you
25	statistical significance?	25	look at Exhibit 19
20	suassical significance.	20	TOOK W. EARION 19
	Page 307		Page 309
1			
_	MS. BROWN: Objection to the form.	1	A Mm-hmm.
2	MS. BROWN: Objection to the form. MR. LOCKE: Objection.	1 2	A Mm-hmm. Q it is moving it states "Moving to
2	MR. LOCKE: Objection.	2	Q it is moving it states "Moving to
2	MR. LOCKE: Objection. THE WITNESS: I saw that. BY MS. PARFITT:	2 3	Q it is moving it states "Moving to the World Beyond P" it's a special issue of The
2 3 4	MR. LOCKE: Objection. THE WITNESS: I saw that. BY MS. PARFITT: Q Okay. You weren't one of those, were	2 3 4	Q it is moving it states "Moving to the World Beyond P" it's a special issue of The American Statistician. The lead article calls for
2 3 4 5	MR. LOCKE: Objection. THE WITNESS: I saw that. BY MS. PARFITT: Q Okay. You weren't one of those, were you?	2 3 4 5	Q it is moving it states "Moving to the World Beyond P" it's a special issue of The American Statistician. The lead article calls for abandoning the use of status statistically
2 3 4 5 6	MR. LOCKE: Objection. THE WITNESS: I saw that. BY MS. PARFITT: Q Okay. You weren't one of those, were you? MS. BROWN: Objection to the form.	2 3 4 5 6	Q it is moving it states "Moving to the World Beyond P" it's a special issue of The American Statistician. The lead article calls for abandoning the use of status statistically significant, and offers much, not just one thing,
2 3 4 5 6 7	MR. LOCKE: Objection. THE WITNESS: I saw that. BY MS. PARFITT: Q Okay. You weren't one of those, were you?	2 3 4 5 6 7	Q it is moving it states "Moving to the World Beyond P" it's a special issue of The American Statistician. The lead article calls for abandoning the use of status statistically significant, and offers much, not just one thing, to replace it, written by Ron Wasserstein, Allen
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1 significance with the researchers at Johns	read all 800, but I looked to see if there were
2 Hopkins?	2 people from Hopkins in particular that signed it,
And that's a mouthful. So let me make	and I knew one of the two.
4 it really clear.	4 Q Okay. Let me show you what we'll have
5 MS. BROWN: Let me object	5 marked as Exhibit No. 20. And I will represent to
6 MS. PARFITT: I move to strike the	6 you that it is a list of the 800 signatories that
7 question.	7 joined together to support this movement to
8 MS. BROWN: You're going to strike it?	8 abandon p-value in statistical significance.
9 MS. PARFITT: Yeah, let me strike it.	9 (Diette Exhibit No. 20 was marked
10 BY MS. PARFITT:	10 for identification.)
Q Were you aware, Dr. Diette, that the	11 MS. PARFITT: Again, Counsel, I
division of Clinical and Translational Research	apologize. Apparently, we only have one copy of
over at Hopkins had distributed to its scientists	this document.
this group of 43 articles, including the	14 MS. BROWN: So is it the blog soliciting
Wassertine Wasserstein, for purposes of	the signatures, or is it just the list?
educating them with regard to this concern over	16 MS. PARFITT: It is the list of
the misuse of statistical significance?	17 signatories.
18 MS. BROWN: I object to a complete	18 MS. BROWN: Okay, that's fine.
19 misrepresentation of the exhibit and to	19 BY MS. PARFITT:
20 foundation.	20 Q Do you see that?
21 THE WITNESS: So I mean, there's a lot	21 A I do.
of things, right. I'll try to answer as many as I	22 Q Okay. Do you know an Elizabeth Ogburn?
23 can.	23 A I don't. I saw her name on here, but
So one is that I probably got something	24 I I don't know her.
because I'm I've been part of the ICTR, and I	25 Q All right. Do you know Daniel
2 011	2 010
Page 311	Page 313
1 use the resources, I'm one of the people who	Sharfenstein (phonetic)?
2 helped to write the grant to get it funded, and so like I get a zillion things that fly by.	2 A Sharfstein, and I know him. Yeah.
so like I get a zillion things that fly by.	3 Q Okay. Is that do you know anyone
I don't know if I saw this or not, but I	4 else that might appear on that list?
probably wouldn't have clicked on if it came through like an e-mail because I had already seen	5 A I don't know. I didn't read it. I
	6 just I literally just did a word search for
it, like, as part of this as part of the Bowman	7 "Hopkins," and I came up with like one person
8 deposition.	8 whose name is Hopkins who works in England, and
9 BY MS. PARFITT:	9 another one, something Hopkins Institute, which is
10 Q Mm-hmm.	10 not, and then two from Johns Hopkins.
A But other than that, I mean, I think	Q Okay. When did you do this research?
it's I think they're smart to do it. They	12 A In the last week. I mean, after
should always put stuff out there for people to	after reading the Bowman deposition.
read. It doesn't mean that we're going to get rid	Q All right. So you read the Bowman
of p of 0.05. It doesn't mean we're going to get	deposition, and then you what caused you then
rid of statistical significance. They're just	to to go back and look at that or for that?
saying it's an interesting read.	A Well, because it sounds like an
Q Do you know any of the signatories to	interesting topic, and, you know, who knows, maybe
19 this particular document?	one day it either will or won't change, but it's
A I found one. One that I know	an interesting thing to read about. And so I
21 personally, and I'm just trying to remember if	21 wanted to just sort of see what what you guys
there was anybody else that I saw.	were driving at. And then since I saw that there
Q Well, let me show you what we'll have	23 were 800 signatories, I just figured I would see
0.4	
<ul> <li>24 marked as Exhibit No. 20.</li> <li>25 A Yeah, so let me just say, so I didn't</li> </ul>	24 if there was anybody at Hopkins that was part of 25 it or not.

	Page 314		Page 316
1	Q Mm-hmm. And you found a couple of	1	significance and p-values?
2	people from Hopkins?	2	A Yeah, well, I'd say the real world,
3	A Yeah, I found two. One I know, one I	3	right. And the real world
4	don't.	4	Q I'm sorry. You're in the real world?
5	Q All right. Again, you were not one of	5	A Real world, yeah.
6	the signatories?	6	Q Okay. And what's the real world doing?
7	A Still true, yeah.	7	A Well, the real world, if I want to write
8	Q Okay. Okay. What position does	8	a grant, I have to provide people with a sample
9	Dr. Sharfstein hold within the University?	9	size estimate of what it is that I'm looking for,
10	MS. BROWN: Objection. Speculation.	10	and the sample size estimate is almost always
11	THE WITNESS: He's been in the	11	based on hypothesis testing. And you have to
12	Department of Biostatistics, and I don't know	12	declare a certain p-value that you find to be a
13	what what other ways to label what he what	13	credible one.
14	his positions are.	14	So I can't just say, I've decided
15	BY MS. PARFITT:	15	because I read some editorial that I'm not going
16	Q Okay. From the time you saw the	16	to use a p-value of 0.05. That I'm still stuck
17	discussion about statistical significance and a	17	with 0.05 as a as an estimate. And so if I
18	movement away from that and did your bit of	18	want to have any success getting a grant, I'm
19	research, did you ever call Dr. Sharfstein to talk	19	going to have to still use the rules that we've
20	to him about it?	20	used for years.
21	A Not yet. I'm hoping I'll just run into	21	And if I publish a paper, I happened to
22	him at some point and and ask him about that.	22	look because I thought it was curious, I went on
23	Q Is the is your interest strong enough	23	New England Journal's website
24	that you might reach out to him?	24	Q Yes.
25	MS. BROWN: Objection to the form.	25	A and they have an extensive list of
23	MS. BROWN. Objection to the form.	23	A and they have an extensive list of
	Page 315		Page 317
1	Page 315 What what interest are we talking about?	1	Page 317 ways in order to represent your p-values and your
1 2		1 2	
	What what interest are we talking about? BY MS. PARFITT: Q Interest in this science that you have		ways in order to represent your p-values and your
2	What what interest are we talking about? BY MS. PARFITT:	2	ways in order to represent your p-values and your confidence intervals that you have to adhere to if
2 3	What what interest are we talking about? BY MS. PARFITT: Q Interest in this science that you have	2 3	ways in order to represent your p-values and your confidence intervals that you have to adhere to if you want to publish your papers. You know, Nature
2 3 4 5 6	What what interest are we talking about? BY MS. PARFITT: Q Interest in this science that you have indicated yourself seems to be pretty important. MS. BROWN: Objection. That misstates his testimony by a lot.	2 3 4	ways in order to represent your p-values and your confidence intervals that you have to adhere to if you want to publish your papers. You know, Nature said that they're not going to change their rules
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	Page 318		Page 320
1	Greenland and McShane. Or maybe not. Maybe	1	took wasn't anything novel or different. I mean,
2	that's wait a minute, I could be wrong. No,	2	I don't know at all what his plans are going
3	it's it's those three.	3	forward, but he still works at the University
4	Q And again, you don't know do you know	4	where we still compete for NIH grants
5	any of them? I know you don't know Dr. Greenland.	5	Q Mm-hmm.
6	Do you know any of the others?	6	A and I haven't seen any change in the
7	A I do not.	7	NIH's posture on this, and I haven't seen any, you
8	Q Okay. So if I understand your opinion	8	know, ground swell of support for just doing
9	today, you still believe in the strength of a	9	whatever you feel like in order to publish your
10	statistical significance versus not statistically	10	paper.
11	significant?	11	Q Well, are you suggesting that what
12	A It's	12	Dr. Greenland and others and Dr. Wasserstein have
13	MS. BROWN: Objection to the form.	13	suggested to do whatever you let me get your
14	THE WITNESS: It's still a factor to	14	words shall yeah. Okay.
15	consider when either planning, conducting, or	15	MS. PARFITT: Tell you what, let's take
16	interpreting a study.	16	a quick break. I want to find that part, and
17	BY MS. PARFITT:	17	we'll get back. Let's take a quick break.
18	Q Okay. And do you still live in the	18	THE VIDEOGRAPHER: The time is 2:44 p.m.
19	world that there is a threshold of a p-value of	19	We're going off the record.
20	0.05?	20	(Recess.)
21	A It depends.	21	THE VIDEOGRAPHER: The time is 2:53
22	Q Well, what do you mean "it depends"?	22	p.m., and we're back on the record.
23	A I'm going to explain.	23	BY MS. PARFITT:
24	Q Please.	24	Q Dr. Diette, when we left just before the
25	A So that's why I used the example of p at	25	break, you said: "I haven't seen any ground swell
1	Page 319 0.05, right? I could just say, I have decided	1	Page 321 of support for doing whatever you feel like in
2	that now I only want to do studies with six people	2	order to publish your paper."
3	in them, and I'll be happy to have a p-value of	3	I'm not talking about the publication of
4	0.5. You'd have to wish me luck getting it	4	papers. What I would like to know from you is, do
5	published anywhere because it's not going to	5	you agree, though, when you were evaluating the
6	happen, right?	6	consistency of evidence, that one should not
7	So if I still want to do research and I	7	disregard studies that are nonstatistically
8	still want to get it published, I'm going to have	8	significant and give greater weight to those that
9	to pick a threshold for a p-value that's agreeable	9	are statistically significant?
10	to the peer reviewers and to the editor. And it	10	MS. BROWN: Objection to the form of the
11	doesn't have to be 0.05. In some circumstances it	11	question.
12	might be 0.01. It might be even lower than that.	12	THE WITNESS: I hear two questions
13	But a but a p threshold is necessary, at least	13	there, and the first part I agree with, and the
14	in our current era, if you want to be able to	14	second part, it depends.
15	conduct and talk about your research.	15	BY MS. PARFITT:
16	Q Do you do you think Dr. Sharfstein is	16	Q Okay. Do you agree that when you are
17	going to now have difficulty having his scientific	17	evaluating and weighing evidence, studies, that
18	works published?	18	you should evaluate studies the same whether they
	MS. BROWN: Objection. Based on what?	19	are statistically significant or not statistically
19		20	significant?
19 20	There's no foundation for that question.		MC DROWN OI' ' A A C I
	BY MS. PARFITT:	21	MS. BROWN: Objection to the form. In
20	BY MS. PARFITT:  Q You can answer the question, Doctor.	21 22	MS. BROWN: Objection to the form. In what context?
20 21	BY MS. PARFITT:  Q You can answer the question, Doctor.  A Well, exactly that. So so Sharfstein	1	what context?  THE WITNESS: I don't know what
20 21 22	BY MS. PARFITT:  Q You can answer the question, Doctor.	22	what context?
20 21 22 23	BY MS. PARFITT:  Q You can answer the question, Doctor.  A Well, exactly that. So so Sharfstein	22 23	what context?  THE WITNESS: I don't know what

	Page 322		Page 324
1	should be evaluated, you know, as thoroughly as	1	BY MS. PARFITT:
2	you can.	2	Q Okay. Now, let's turn to your chart,
3	BY MS. PARFITT:	3	and specifically the studies that you set forth in
4	Q When you're evaluating the consistency	4	your report on pages 13 and 14.
5	of studies, is it proper epidemiology to consider	5	And if you'd go to your report, 13 and
6	those studies whether or not they are	6	14.
7	statistically significant or nonstatistically	7	A I'm sorry, I've got somebody else's
8	significant?	8	thing here.
9	MS. BROWN: Objection to the form.	9	Q That's okay.
10	THE WITNESS: It is. And I think, you	10	A Okay.
11	know, regardless of what Dr. Rothman has written,	11	Q Okay. You got there? All right.
12	you know, it's part of the information that's	12	What I would like all right. So you
13	available to you, and I think to ignore it would	13	have that in front of you, correct, sir?
14	be, you know, not in your best interest.	14	A I do.
15	BY MS. PARFITT:	15	Q Okay. Now, what I'll have marked as
16	Q Okay. And would you agree that one	16	for demonstrative purposes is a chart that we have
17	should not conclude there is no association or no	17	marked as Diette Exhibit 21.
18	difference just because a one study is	18	(Diette Exhibit No. 21 was marked
19	statistically significant and another study is	19	for identification.)
20	significant?	20	BY MS. PARFITT:
21	MS. BROWN: Objection to the form.	21	Q And let me hand that to you.
22	THE WITNESS: And I agree with you,	22	MS. BROWN: Counsel, can you give a
23	especially because you used "just because."	23	representation for the record about what
24	BY MS. PARFITT:	24	Exhibit 21 is?
25	Q All right. So maybe what do you	25	MS. PARFITT: Yes, I was about to do
	Page 323		Page 325
1	Page 323 mean?	1	Page 325 that.
1 2		1 2	
	mean?  A No, it's a good sentence. I mean, I it I think that over and over what we're		that.  MS. BROWN: Thank you. BY MS. PARFITT:
2	mean?  A No, it's a good sentence. I mean, I it I think that over and over what we're talking about is that that you shouldn't be	2	that.  MS. BROWN: Thank you.  BY MS. PARFITT:  Q Dr. Diette, on pages 13 and 14, you
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	Page 326		Page 328
1	that Dr. Diette listed in his report on page 13	1	MS. PARFITT: Yeah, there you go.
2	and 14 and has put them on a graph.	2	There you go, Doctor.
3	MS. BROWN: Who who put them on a	3	BY MS. PARFITT:
4	graph and what is the graph?	4	Q Doctor, I've handed you what's marked as
5	MS. PARFITT: Counsel	5	Exhibit 22. It is the an article by Patricia
6	MS. BROWN: Well, I'm going to have an	6	Hartge dated 1983 in JAMA. Do you see that?
7	objection to this document, and I just want to	7	A I do.
8	MS. PARFITT: You can. You can object	8	Q Okay. And at the top of the study, she
9	to this	9	has a table entitled "Estimated Relative Risk."
10	MS. BROWN: make sure I'm properly	10	Do you see that?
11	objecting, because I don't know what it is, who	11	A I do.
12	made it, based on what, and to the extent the	12	Q And I'll put this up on the ELMO.
13	doctor needs the underlying studies to answer your	13	MS. PARFITT: Okay. And it's hard to
14	questions. We'll	14	see. We'll have to zero in there. There you go.
15	MS. PARFITT: Counsel, no speaking	15	Okay.
16	objections.	16	BY MS. PARFITT:
17	MS. BROWN: I just want to object to	17	Q You'll see on your chart you had listed
18	this.	18	for Hartge, 1983, a relative risk of 0.7 with a
19	BY MS. PARFITT:	19	confidence interval of 0.40 to 1.10.
20	Q Dr. Diette	20	Do you see that?
21	MS. PARFITT: I understand, Counsel. I	21	A Uh
22	know what you're doing.	22	Q Look at your
23	MS. BROWN: The name is Diette.	23	A I do, yep.
24	MS. PARFITT: Diette?	24	Q on page 14.
25	MS. BROWN: Diette.	25	Okay. Now, look at the table of the
	Page 327		Page 329
1	MS. PARFITT: Diette.	1	Hartge study under "Genital Talc Use."
2	MS. PARFITT: Diette. BY MS. PARFITT:	2	Hartge study under "Genital Talc Use."  Do you see that?
2	MS. PARFITT: Diette. BY MS. PARFITT: Q I'm sorry, Dr. Diette. I'm not doing it	2 3	Hartge study under "Genital Talc Use."  Do you see that?  A I do.
2 3 4	MS. PARFITT: Diette. BY MS. PARFITT: Q I'm sorry, Dr. Diette. I'm not doing it to annoy you.	2 3 4	Hartge study under "Genital Talc Use."  Do you see that?  A I do.  Q Okay. And do you see where Dr. Hartge
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2 3 4 5 6	MS. PARFITT: Diette.  BY MS. PARFITT: Q I'm sorry, Dr. Diette. I'm not doing it to annoy you. A You've had it you've had it right all day. You're good.	2 3 4 5 6	Hartge study under "Genital Talc Use."  Do you see that?  A I do.  Q Okay. And do you see where Dr. Hartge reports that the relative risk for genital use talcum powder is not what you have as 0.7, but 2.5
2 3 4 5 6 7	MS. PARFITT: Diette.  BY MS. PARFITT: Q I'm sorry, Dr. Diette. I'm not doing it to annoy you. A You've had it you've had it right all	2 3 4 5 6 7	Hartge study under "Genital Talc Use."  Do you see that?  A I do.  Q Okay. And do you see where Dr. Hartge reports that the relative risk for genital use talcum powder is not what you have as 0.7, but 2.5 with a confidence interval of 0.7 to 10.
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	Page 330		Page 332
1	saying is not right.	1	MS. BROWN: Okay. Then let him
2	MS. PARFITT: Counsel, that's it. No.	2	MS. PARFITT: I just don't want you
3	I'm sorry.	3	coaching
4	MS. BROWN: Are you intentionally	4	MS. BROWN: answer the question.
5	misrepresenting what's in the paper?	5	MS. PARFITT: and touching the paper
6	MS. PARFITT: Counsel, if you heard my	6	and pointing at things.
7	question I think Dr. Diette understands the	7	MS. BROWN: You are intentionally
8	question.	8	misreading this document.
9	BY MS. PARFITT:	9	BY MS. PARFITT:
10	Q Dr. Diette, we have on the table a	10	Q Doctor all right, Dr. Diette, you're
11	genital use, which is 2.5 with a confidence	11	the one I'm interested in hearing from, to be
12	interval of 0.7 to 10.	12	perfectly candid.
13	Do you see that?	13	My question is, are the is the
14	A Yeah, I'm sorry. Can you give me just	14	relative risk that you have listed for Hartge
15	one second?	15	0.70, or should it be 2.5?
16	Q Okay. Of course I can.	16	A You know, the the study report is
17	A Thank you. (Peruses document.)	17	really tough I think to decide that either one of
18	Yeah, I'm with you.	18	them is ideal. And for a couple of reasons, and
19	Q Okay. And the only correction I I	19	one is just because this this genital with an
20	wish to make is that, instead of the 0.70 that you	20	asterisk, it isn't literally just genital
21	have for Hartge, it should be 2.5	21	application. It includes sanitary napkins.
22	MS. BROWN: Objection.	22	And you can see in a lot of the studies
23	BY MS. PARFITT:	23	that people have sort of broken out sanitary
24	Q for the genital	24	napkin use separate from like perineal
25	MS. PARFITT: Let me finish, Counsel.	25	application.
	Page 331		Page 333
1	Page 331 BY MS. PARFITT:	1	Page 333 And so, you know, that's not an ideal
1 2		1 2	
	BY MS. PARFITT:		And so, you know, that's not an ideal
2	BY MS. PARFITT:  Q for the genital use of talc. Do you	2	And so, you know, that's not an ideal measure for this this chart either. I mean, I
2	BY MS. PARFITT:  Q for the genital use of talc. Do you agree with that?	2 3	And so, you know, that's not an ideal measure for this this chart either. I mean, I get your point, the all over is something else.
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2 3 4 5	BY MS. PARFITT:  Q for the genital use of talc. Do you agree with that?  MS. BROWN: Objection to the form.  THE WITNESS: So, maybe. I'm just	2 3 4 5	And so, you know, that's not an ideal measure for this this chart either. I mean, I get your point, the all over is something else. But there's at least you know, there's more than ten people at least in that particular
2 3 4 5 6	BY MS. PARFITT:  Q for the genital use of talc. Do you agree with that?  MS. BROWN: Objection to the form.  THE WITNESS: So, maybe. I'm just trying to think about how I got	2 3 4 5 6	And so, you know, that's not an ideal measure for this this chart either. I mean, I get your point, the all over is something else. But there's at least you know, there's more than ten people at least in that particular that particular row. So I I'm not sure if
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1			
	Page 334		Page 336
1	confusing is how you it's not a great study,	1	you did, where is that contained in your report?
2	right. I mean, I'm not saying the study is not	2	MS. BROWN: And you should feel free to
3	great. I'm saying the report of the study doesn't	3	answer both questions since counsel cut you off.
4	really tell us everything that you could really	4	THE WITNESS: I have no idea about what
5	wish to know.	5	you mean by where it is in the report.
6	BY MS. PARFITT:	6	BY MS. PARFITT:
7	Q So would you like to keep your chart	7	Q Well, I only have RRs here. I have a
8	with the 0.70, or do you think the chart should be	8	table. No analyses of the different case
9	modified to say 2.5?	9	controls. Just a table of their relative risks.
10	MS. BROWN: Objection to the form.	10	So, you've now gone through an analysis
11	THE WITNESS: I mean, I'd be happy to	11	of the Hartge case and said, You know, maybe this
12	put both rows there and just with an asterisk, and	12	is what we should have extracted, maybe we should
13	explain, you know, what each one of those is.	13	have looked at this, but I used my judgment and
14	BY MS. PARFITT:	14	put the 0.7.
15	Q Okay. Would you have you done that	15	And what I'm asking is, is that analyses
16	for all the other studies that you've listed here,	16	that you just did for us on the record the kind of
17	wherein there may be data for sanitary napkins and	17	analysis that you did for all the other studies?
18	data for genital use and data for cornstarch? Did	18	And if it was, where in the 51 pages of your
19	you go through that analysis?	19	report or this chart have you included that
20	MS. BROWN: Objection to the form.	20	information?
21	THE WITNESS: So, for this table I	21	MS. BROWN: Objection. Completely
22	haven't, but I have gone through all the sanitary	22	misstates his testimony, as well as the article,
23	napkin findings that I can. And that's one of the	23	as well as the report, as well as the chart.
24	things you'll find in my handwritten notes from	24	THE WITNESS: Let me just see. So
25	the from the prior case.	25	obviously it's not it's not documented, but I
	Page 335		Page 337
1	In terms of cornstarch, that's a	1	think part of what I'm trying to do is communicate
2	different question.	2	what the what the risks are that were reported
3	BY MS. PARFITT:	3	and what their confidence bounds were.
4	Q And, Doctor, I	4	And so, you know, the papers stand for
5	MS. BROWN: Wait, he needs to finish.	5	themselves. They all exist. They're all cited.
6	He's got to	6	We can look at anything we want.
7	BY MS. PARFITT:	7	I think in terms of the cornstarch
8	Q Doctor, that's really not my question.	8	issue
9	MS. BROWN: No, no, no, no, no, he	9	BY MS. PARFITT:
10	BY MS. PARFITT:	10	Q Doctor, I'm not asking about
11	Q My question is this	11	MS. BROWN: Stop cutting him off.
12	MS. BROWN: Counsel.	12	BY MS. PARFITT:
13	MS. PARFITT: Counsel.	13	Q the cornstarch. We can talk about
14	BY MS. PARFITT:	14	that later. I'm not talking about cornstarch.
15	Q My question is	15	MS. BROWN: You cannot continue to cut
16	MS. BROWN: He has to finish the	16	him off, or we'll have to call the Judge.
17	question.	17	MS. PARFITT: I don't have a question
	BY MS. PARFITT:	18	about cornstarch.
18		19	MS. BROWN: He's answering your
	Q You're not answering my question. Mine	1 19	C 3
18		20	question.
18 19	Q You're not answering my question. Mine		
18 19 20	Q You're not answering my question. Mine is a very simple one.	20	question.
18 19 20 21	Q You're not answering my question. Mine is a very simple one.  My question was if you'll be patient	20 21	question.  MS. PARFITT: He is not.
18 19 20 21 22	Q You're not answering my question. Mine is a very simple one.  My question was if you'll be patient with me, my question was: The analysis that	20 21 22	question.  MS. PARFITT: He is not.  MS. BROWN: You have to let him answer

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	Page 338		Page 340
1	direct.	1	BY MS. PARFITT:
2	MS. BROWN: No, you have to let him	2	Q Correct?
3	answer the question or	3	A I did.
4	MS. PARFITT: Counsel.	4	Q Okay. And my last question is, is that
5	MS. BROWN: We're going off the record.	5	the position you wish to take today?
6	MS. PARFITT: Do you want to go we'll	6	MS. BROWN: Objection to the form.
7	go off the record right now.	7	BY MS. PARFITT:
8	MS. BROWN: Yeah, let's go. Fine. Do	8	Q Or would you modify that and use a
9	we need to call the Judge? You have to let him	9	different relative risk? That's all.
10	answer.	10	A I don't
11	MS. PARFITT: We'll call her. We'll	11	MS. BROWN: Objection.
12	call her.	12	THE WITNESS: I don't think anybody is
13	THE VIDEOGRAPHER: The time is 3:09 p.m.	13	well served by looking at this other number, other
14	We're going off the record.	14	than if you're just trying to make a point and
15	(A discussion was held off the record.)	15	be you know, for a plaintiff or something to
16	THE VIDEOGRAPHER: The time is	16	look at this 2.5.
17	3:10 p.m., and we're back on the record.	17	I think if you take this one that says
18	MS. PARFITT: Thank you.	18	there's a small number of exposed women, ten
19	BY MS. PARFITT: Thank you.		
		19	people, you know, that yields an unreliable
20	Q And, Dr. Diette, all I'm trying to to	20	estimate. I mean, somebody should fuss about that
21	ask, and obviously very poorly, is the analysis	21	too. So that's not that's not an ideal
22	that you just discussed that you went through with	22	measure.
23	Hartge, as we sat here today and you did it on the	23	If it helps, we can put them on the
24	record, did you do that for all the other studies?	24	table, and it wouldn't really change things,
25	A I tried to.	25	right. You've got confidence bounds from 0.7 to
	Page 339		Page 341
1			
Τ.	Q Okay. And so you had to make	1	10. I mean, that's an enormous confidence value.
2	Q Okay. And so you had to make determinations as to what relative risks to	1 2	<ul><li>10. I mean, that's an enormous confidence value.</li><li>So there's not a lot of information from those ten</li></ul>
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	Page 342		Page 344
1	A We can just look at the studies. If I	1	doesn't change anything about this exercise.
2	documented the sample size next to each one of	2	BY MS. PARFITT:
3	these, it wouldn't tell you why I picked this	3	Q Okay. Well, I didn't select Hartge.
4	particular relative risk.	4	You selected Hartge.
5	Q It would it would not offer valid	5	A Well, I selected it because it exists.
6	information as to the relevance of those relative	6	I mean, I my my goal was to find all the
7	risks?	7	studies that exist.
8	A Oh, my gosh. I mean if you were	8	Q Okay.
9	interested in it, I could find it for you. It	9	A I mean, I didn't invent it, right? I
10	wasn't it wasn't important for me to	10	just I just looked at
11	communicate what I was trying to communicate.	11	Q Well, I just didn't want the record to
12	Q No, I it's a different question.	12	reflect that I was selecting your data.
13	Is sample size important when one is	13	A No, but you it sounds like you would
14	doing an analysis of a scientific study?	14	prefer me to use that 2.5 from the ten people,
15	A Yeah, that's why it's in the paper.	15	instead of the 0.7 from the nearly hundred people.
16	Q Okay. Because if the sample size is too	16	Q I have
17	small, it may be underpowered; is that correct?	17	A And I'm happy to look at them both. I
18	MS. BROWN: Objection.	18	mean they both tell us some information. It's not
19	THE WITNESS: Well, I don't know. I	19	like, you know, one is ideal and the other isn't.
20	mean, if we're going to do power now, I think	20	But it really doesn't change the basic premise
21	that's going to be a different a different	21	here.
22	conversation.	22	Q All right. So on my chart I have them
23	The sample size being small can have all	23	both. I have 0.7 and 2.5. Do you see that?  A Um
24 25	kinds of all kinds of impact. This to me is actually the most generous way to look at these	25	
25	actually the most generous way to look at these	45	Q Right at the bottom there, "Genital use"
	Page 343		Page 345
1	Page 343 data, rather than picking at the same size. I	1	Page 345 and "Any talc use." Do you see that?
1 2		1 2	
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2	data, rather than picking at the same size. I mean, I can do that too, right? I can say, This is a crummy study because it's got 23 people, or	2 3	and "Any talc use." Do you see that?  A I do.  Q Okay. All right. So as I appreciate
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Gregory B. Diette, M.D.

	Page 346		Page 348
1	A Correct.	1	to be hard for me to read it off of your figure
2	Q Yes. Okay.	2	because I don't know, like like, the Harlow and
3	Now, looking at the chart, which is 21,	3	Weiss one what is wrong with that one? Or is
4	what is the point estimate wait.	4	it
5	What I would like you to do, rather, I	5	MS. BROWN: That looks wrong, doesn't
6	would like you to circle the point estimate for	6	it?
7	every study that exceeds that has a 1.0.	7	THE WITNESS: No, it's Harlow and Weiss
8	MS. BROWN: Objection. Based on the	8	versus Harlow.
9	document you created as 21?	9	So what am I circling? I'm circling
10	MS. PARFITT: Which is identical to the	10	the the on the forest plot?
11	doctor's document, with the exception of I put two	11	BY MS. PARFITT:
12	numbers for Hartge.	12	Q On the forest plot, if you would be kind
13	MS. BROWN: You put two numbers for	13	enough to circle every relative risk where the
14	Moorman too.	14	point estimate was 1.0 or above.
15	MS. PARFITT: Before and after 2014,	15	A Oh, I did it wrong.
16	correct?	16	Q That's all right.
17	MS. BROWN: Nope, Moorman is 2009. You	17	A Sorry. I'm circling the ones that
18	have you've broken out Moorman by race.	18	are do you have another another copy of
19	MS. PARFITT: I did.	19	this?
20	MS. BROWN: So I mean, my point here is	20	MS. MILLER: You can have mine.
21	just if you wanted to use his report, he's happy	21	MR. LOCKE: I didn't
22		22	
23	to answer your questions, but MS. PARFITT: He did it but he did it	23	MS. PARFITT: I'm sorry. I'm sorry, Tom?
23 24		23	
25	too.	25	MR. LOCKE: I just couldn't hear you trailed off at the end.
23	MS. BROWN: Okay. That's fine.	25	trailed on at the end.
	Page 347		
	rage 317		Page 349
1	MS. PARFITT: It's on his chart.	1	Page 349  MS. PARFITT: Sure.
1 2		1 2	
	MS. PARFITT: It's on his chart.		MS. PARFITT: Sure.
2	MS. PARFITT: It's on his chart. BY MS. PARFITT:	2	MS. PARFITT: Sure. BY MS. PARFITT:
2	MS. PARFITT: It's on his chart. BY MS. PARFITT: Q I didn't do anything the only	2 3	MS. PARFITT: Sure. BY MS. PARFITT: Q You have and maybe I can shorten this
2 3 4	MS. PARFITT: It's on his chart. BY MS. PARFITT: Q I didn't do anything the only modification I made to your chart, Doctor, is	2 3 4	MS. PARFITT: Sure. BY MS. PARFITT: Q You have and maybe I can shorten this for you, how about that, in the interest of time.
2 3 4 5	MS. PARFITT: It's on his chart. BY MS. PARFITT: Q I didn't do anything the only modification I made to your chart, Doctor, is Hartge, and there I kept your 0.70 and added the	2 3 4 5	MS. PARFITT: Sure. BY MS. PARFITT: Q You have and maybe I can shorten this for you, how about that, in the interest of time. A Your call.
2 3 4 5 6	MS. PARFITT: It's on his chart. BY MS. PARFITT: Q I didn't do anything the only modification I made to your chart, Doctor, is Hartge, and there I kept your 0.70 and added the genital 2.5.	2 3 4 5 6	MS. PARFITT: Sure. BY MS. PARFITT: Q You have and maybe I can shorten this for you, how about that, in the interest of time. A Your call. Q We have thank you. I appreciate
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	Page 350		Page 352
1	be	1	that those studies have a relative risk in excess
2	Q Right. So we're doing above 1.0.	2	of 1.0 demonstrate a positive result?
3	A Okay.	3	MS. BROWN: Objection to the form.
4	Q You pointed that out, and you're right.	4	THE WITNESS: So some some of those,
5	A Yeah. So have I done it? There's one,	5	yes, and some of those, no.
6	two, three, four well, I guess Hartge is	6	BY MS. PARFITT:
7	one, two, three, four, five	7	Q All right. Would it be fair to say that
8	Q Sure.	8	they're certainly trending above the null; is that
9	A there's five down below the dotted	9	correct?
10	line, and there were	10	MS. BROWN: Objection to the form.
11	Q Okay. And if you can just identify	11	THE WITNESS: Not necessarily. I'm just
12	those where the point estimate does not exceed	12	trying to imagine like I think I understand why
13	it's not above 1.0.	13	you're doing this but I'm just trying to
14	MS. BROWN: Counsel, can you represent,	14	imagine like standing in front of colleagues like
15	on the record, what this second up from the bottom	15	with the Tzonou one and say, I've decided that a
16	is?	16	relative risk of 1.05 is a positive risk.
17	MS. PARFITT: Sure. Hartge and Stewart,	17	I mean, you can only guess so close to
18	'94.	18	1.0. I mean, 1.0 is basically null, right?
19	MS. BROWN: Underneath that.	19	There's no there's no effect. So you can hope
20	MS. PARFITT: Wong.	20	for, but you're rarely going to get a 1.00. So if
21	MS. BROWN: No, above what is the	21	you get like a 1.01, 1.02, 1.03, those are
22	entry above Wong?	22	basically 1.0.
23	MS. PARFITT: Oh, in his table	23	I mean, you can you can say try to
24	THE WITNESS: Oh, that too.	24	make some point to somebody, Oh, it's a little bit
25	MS. PARFITT: In his table he had RR	25	above 1.0; therefore, it's a positive association.
	Month and the		above no, increase, its a postave association.
	D 3F1		
	Page 351		Page 353
1	0.03, RR 0.05. It was just extracted from his	1	Page 353  But other than this setting, you're going to get
1 2		1 2	
	0.03, RR 0.05. It was just extracted from his		But other than this setting, you're going to get
2	0.03, RR 0.05. It was just extracted from his table.	2	But other than this setting, you're going to get laughed out of the room. I mean, this is this
2	0.03, RR 0.05. It was just extracted from his table.  MS. BROWN: Oh, it's the second Hartge	2 3	But other than this setting, you're going to get laughed out of the room. I mean, this is this is a 1.05. So, you know, that's you call it
2 3 4	0.03, RR 0.05. It was just extracted from his table.  MS. BROWN: Oh, it's the second Hartge and Stewart.	2 3 4	But other than this setting, you're going to get laughed out of the room. I mean, this is this is a 1.05. So, you know, that's you call it what you want. I don't call that a positive
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	Page 354		Page 356
1	Q My question is just simply this: Would	1	was inconsistent.
2	you identify all studies where the confidence	2	Q And that aspect
3	interval is 1.2 or higher?	3	MS. BROWN: Are you looking at the
4	MS. BROWN: Objection to the form.	4	report?
5	BY MS. PARFITT:	5	THE WITNESS: Yeah.
6	Q And you can just circle them.	6	BY MS. PARFITT:
7	A And it doesn't have to mean anything to	7	Q was with regard to population study
8	me, right?	8	versus hospital-based studies?
9	Q Nope. Just circle anything where the	9	A Well, I think I made a comment about
10	confidence interval is above a 1.2.	10	both, right?
11	A So where the confidence interval	11	Q And if I can summarize your testimony,
12	includes 1.2?	12	but feel free to look, but your testimony from the
13	Q 1.2, correct.	13	report or your writings and your report suggest
14	A Or where it's above 1.2?	14	that the case-control studies are inconsistent,
15	Q It's above 1.2.	15	and you focus on the fact that the hospital-based
16	MS. BROWN: The entire interval?	16	controls were inconsistent with the population-
17	THE WITNESS: Well, so there's not many,	17	based controls.
18	right? So there's one	18	A That's one one of the areas of
19	BY MS. PARFITT:	19	inconsistency.
20	Q You understand that it includes 1.2?	20	Q Okay. And you base that opinion on the
21	A I heard oh, that's different,	21	fact that there the hospital-based studies were
22	because there's only one where it's above 1.2.	22	not statistically significant, but the
23	Q It includes the 1.2.	23	population-based studies were statistically
24	A Or two that are above it.	24	significant; is that correct?
25	So the two that are above it, don't	25	MS. BROWN: Objection to the form.
	Page 355		Page 357
1		1	
1 2	include it, right, so we got to start over.	1 2	THE WITNESS: That's one piece of
3	Q Everywhere sure. You go ahead and do it. Everywhere where the confidence interval is	3	evidence, right. So one piece of evidence is that the hospital-based ones, none of them were
4	above includes 1.2.	4	statistically significant, and some of the
5	A That's all right. I'm just going to put	5	population-based ones were.
6	a little asterisk next to them, because I already	6	BY MS. PARFITT:
7	made a mark	7	Q All right. And because you had some of
8	Q Sure, that's fine.	8	the population-based studies, you found
9	A next to the ones that are above 1.2.	9	inconsistent because the confidence intervals were
10	Okay.	10	not were such that they were not statistically
11	Q Okay. Let's go ahead and just put this	11	significant; is that correct?
12	here. I appreciate that.	12	A That's a
13	Okay. Here we go. Let's see here.	13	MS. BROWN: Objection to the form.
14	Okay. So let's just stay with that one	14	THE WITNESS: And as before, that's a
15	here for a moment. Let me give you give you a	15	piece of a piece of the information here.
16	blank one here for a moment. Is that all right?	16	BY MS. PARFITT:
17	So you have something in front of you.	17	Q Okay. I've reviewed your report. Other
	A Sure.	18	than the distinction between the statistical
1 Ω		19	significance of studies versus the nonstatistical
18 19			significance of studies, how else did you discern
19	Q Okay. All right.	20	SIZHILICANCE OF SHIGHES. HOW EISE OID VOIL DISCETTI
19 20	Dr. Diette, looking at the chart that we	20	
19 20 21	Dr. Diette, looking at the chart that we just talked about, you have described in your	21	that they were different and not consistent?
19 20 21 22	Dr. Diette, looking at the chart that we just talked about, you have described in your report that the case-control studies are	21 22	that they were different and not consistent?  A Well, I have a section on consistency.
19 20 21 22 23	Dr. Diette, looking at the chart that we just talked about, you have described in your report that the case-control studies are inconsistent. Is that your testimony?	21 22 23	that they were different and not consistent?  A Well, I have a section on consistency.  So it there's other things about these studies
19 20 21 22	Dr. Diette, looking at the chart that we just talked about, you have described in your report that the case-control studies are	21 22	that they were different and not consistent?  A Well, I have a section on consistency.

Gregory B. Diette, M.D.

Page 358 Page 360 1 dose-response relationships are all over the 1 like that. So I'm -- that's more inconsistency. 2 place. So that I found to be an inconsistency. 2 Q Okay. Dr. Diette, what I'm trying to 3 The findings about certain kinds of ovarian 3 get at here is, the underbelly, I guess, of your 4 4 opinions seem to be from your report that cohort cancers, some showed a particular cell type and 5 5 studies are inconsistent with the case-control some -- some didn't. 6 6 Let me just -studies, which they themselves are inconsistent 7 7 Q Let me ask you -because population-based studies and 8 8 MS. BROWN: Wait, I don't think he's hospital-based studies, some were statistically 9 9 finished. significant and some were not. Correct? 10 A Exactly, yes. 10 MS. PARFITT: No. Let's just make sure. 11 Q Okay. And that's really the -- the guts 11 THE WITNESS: I think we've said it, but 12 of your report, correct? 12 I want to make it clear, right, because we were --13 MS. BROWN: Objection to the form. 13 we were really just sort of focused very -- very THE WITNESS: I -- no. I mean, those 14 much on population-based and hospital-based case 14 15 are two very important points, but I'd say there's 15 controls. 16 a heck of a lot more than that in the report. 16 BY MS. PARFITT: 17 BY MS. PARFITT: 17 Q That's right. 18 Q Okay. Did you go through -- let's --18 A But I think the fact that there is 19 let's talk a little bit about that. 19 basically, you know, not a signal from the cohort 20 You described these relative risks of 20 studies is an inconsistency with studies of 21 the case-control studies as small, weak -- small 21 another design, so another form of inconsistency. 22 and weak, correct? 22 I think that -- and what I've tried to 23 23 A Correct. say here, right, because I think -- I think some 24 Q Okay. What type of -- those words 24 of these Hill criteria, it's hard to -- hard to "small and weak," are those scientific words? 25 25 keep every -- every comment you want under one Page 359 Page 361 particular heading, and so I've tried to get at A So they're words that my colleagues and 1 1 2 2 this issue here too that if it were consistent I use. I mean, it's a word that Dr. Rothman used 3 that talc caused or was associated with ovarian 3 when he did his analysis in 2000 and called the 4 cancer, I would expect to see it under a variety 4 summary odds ratio or the risk -- risk of 1.3, he 5 of circumstances, not just perineal dusting. And 5 called it weak. I'm not sure whether he's citing 6 so one of the inconsistencies is that, you know, 6 a particular definition, but, you know, it --7 7 diaphragms and condoms, that we don't see that it's -- there's probably reasons, just like where 8 signal. So I'm just saying that that's an 8 you talk about a p-value of 0.05 not being the 9 inconsistency. It's the opposite of consistency. 9 absolute line. I think it's why people have 10 And I guess too -- I mean just while 10 resisted trying to say that it has to be above an we're even still on the -- on the types of exact specific number. 11 11 12 studies, I mean the Taher study that, I guess, you 12 But I think we can all recognize risks 13 know, even though it's not published yet, I mean 13 that are large. You know, we know that a risk of they've got a summary risk for the hospital-based 14 14 10 is a large risk. We know that 20 is a large studies which is less than 1.0. Right. So now 15 15 risk. We know that a relative risk of 1.01, it's 16 it's not even just like -- if -- I don't know 16 got to be tiny, right, because it can't be any whether we should like the Taher study or not, but 17 smaller than that on that particular scale. 17 it's out there, right. And so now we've got --18 18 So somewhere in there we have to use 19 Q It's out there. It's a piece of the 19 some judgment, and I think if you got a 1.2 or 20 evidence. 20 1.3, I don't know who -- I don't know who thinks 21 A Yeah, it's something that's out there, 21 that's strong. It doesn't make any sense. 22 so now we've got something that's unpublished from 22 O Do you agree that having a weak 23 2018 that's got not even a positive risk. I mean, 23 association does not rule out a causal connection? 24 this -- this exercise of going to look and see 24 MS. BROWN: Objection to the form. 25 what's over 1.0, there's a 0.94 or 6 or something 25 THE WITNESS: Wait a minute, say it

1 again because I think 1 Q Secondhand smoke an 2 BY MS. PARFITT: 2 MR. LOCKE: Objectic 3 Q Having a weak association would not rule 3 THE WITNESS: I thin 4 out a causal association. 4 General has put it at it's either the control of the co	Page 364
3 Q Having a weak association would not rule 3 THE WITNESS: I thin 4 out a causal association. 4 General has put it at it's either	d lung cancer.
4 out a causal association. 4 General has put it at it's either	
· ·	k really the Surgeon
	er about 1.7 or
5 A That's correct. 5 1.9, somewhere in there.	
6 Q All right. Would you also agree that 6 BY MS. PARFITT:	
7 while the strength of an association is a 7 Q Okay. Let me show yo	ou I'm sorry.
8 guideline for drawing an inference of causation, 8 1.7 or 1.9.	
9 there is no specified threshold required? 9 Let me show you a stud	y by Kim. And
MS. BROWN: Objection to the form. 10 it's entitled "Exposure to Second	ndhand Smoke and
THE WITNESS: I don't think there's a 11 the Risk of Cancer in Never Si	
specified threshold. I think it's a gradient, 12 represent that it's in the Internal	tional Journal
right, that you have to use as you're applying 13 of Environment, 2018. And the	is would be a
your judgment about all of the evidence. And that 14 meta-analysis by Dr. Kim.	
when you have a very small risk, you should be 15 A Do you know, is it son	nething I cited or
more concerned about the distorting effects of 16 is this new new to me or	
other factors, and if you have a larger risk, you 17 Q I did not see it in your	
can be less worried about those distorting 18 A Okay. Thank you.	
19 factors. 19 Q list of references.	
20 BY MS. PARFITT: 20 In fact, good question.	None of the 167
Q But you will agree with me under the 21 articles that were in your curric	culum vitae did I
Bradford Hill factors, strong association or weak 22 see that you cited in support for	r your expert
23 association, neither are necessary for finding 23 report; is that correct?	
24 causality, correct? 24 A That would I'm sure	that's correct.
25 MS. BROWN: Objection to the form. 25 Q Okay. Okay. Do you	see that?
Page 363	Page 365
1 THE WITNESS: So there isn't a single 1 A I do, yes.	
2 one of his considerations that all by itself is 2 Q Okay. And if you look	in the abstract,
3 completely necessary, right. It's a it's a 3 do you see where the authors of	
5 Completely necessary, right. It's a it's a   5 do you see where the authors t	
* * *	e exposure and lung
method to pull together a variety of, you know, information about the studies. But he he relative risks for passive smoke cancer in never users was a rel	e exposure and lung
method to pull together a variety of, you know, information about the studies. But he he certainly does give us some guidance about what  method to pull together a variety of, you know, cancer in relative risks for passive smok cancer in never users was a rel than of 1.2.	e exposure and lung ative risk rather
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	Page 366		Page 368
1	Q Okay. Let me show you as well the Lv	1	associations that are implementing those types of
2	study, and it was a 2015 study. "Risk of	2	programs to reduce secondhand smoke for fear of
3	All-Cause Mortality Associated With Secondhand	3	lung cancer have accepted this type of data, 1.1,
4	Smoke."	4	1.2, for purposes of making those policy
5	A Do I have that?	5	decisions?
6	Q I'm getting that for you. Hold on one	6	A So I don't know
7	second.	7	MR. LOCKE: Objection.
8	A Oh, I'm sorry. I thought I	8	THE WITNESS: Oops, sorry.
9	Q No, no worries.	9	Like, I don't I don't know what
10	A I thought I missed it.	10	inputs they they used, and I don't I'm not
11	(Diette Exhibit No. 23 was marked	11	saying they wouldn't, but I don't know whether
12	for identification.)	12	they would use these risks to drive that or not.
13	BY MS. PARFITT:	13	BY MS. PARFITT:
14	Q Do you have that in front of you?	14	Q Okay. You would agree with me, though,
15	A Yes. So this is by Lv?	15	that the risk of 1.1 and 1.2 are very are
16	Q That's right.	16	actually less than the relative risks that we've
17	A The last name, yeah.	17	seen with talcum powder products and ovarian
18	Q And now again, looking at the abstract	18	cancer, correct?
19	section, does it report the relative risk for	19	MS. BROWN: Objection to the form.
20	never smokers exposed to secondhand smoke versus	20	THE WITNESS: So it's less than the
21	unexposed?	21	pooled odds ratio from the case-control studies in
22	A So the pooled relative risk for never	22	the meta-analyses.
23	smokers compared to those is that so that	23	BY MS. PARFITT:
24	first sentence of the results	24	Q Okay. Now, you yourself have done
25	Q That's right	25	studies on indoor particulate matter, correct?
	Page 367		Page 369
1	A 1.18?	1	A. Commont
		<u>+</u>	A Correct.
2	Q Correct. And they then report in the	2	Q Okay. In particular, you published a
2 3			
	Q Correct. And they then report in the	2	Q Okay. In particular, you published a
3	Q Correct. And they then report in the all-cause mortality and RR was 1.23 for	2 3	Q Okay. In particular, you published a study with McCormack and Diette on common
3 4	Q Correct. And they then report in the all-cause mortality and RR was 1.23 for cardiovascular diseases. Do you see that?	2 3 4	Q Okay. In particular, you published a study with McCormack and Diette on common household exposures?
3 4 5	Q Correct. And they then report in the all-cause mortality and RR was 1.23 for cardiovascular diseases. Do you see that?  A Yeah, although exactly right, yep.	2 3 4 5	Q Okay. In particular, you published a study with McCormack and Diette on common household exposures?  A I've published a bunch with her, so I
3 4 5 6	Q Correct. And they then report in the all-cause mortality and RR was 1.23 for cardiovascular diseases. Do you see that?  A Yeah, although exactly right, yep. Q Okay. Now, there have been and this	2 3 4 5 6	Q Okay. In particular, you published a study with McCormack and Diette on common household exposures?  A I've published a bunch with her, so I don't know which which particular one that is.
3 4 5 6 7	Q Correct. And they then report in the all-cause mortality and RR was 1.23 for cardiovascular diseases. Do you see that?  A Yeah, although exactly right, yep. Q Okay. Now, there have been and this is work that you do as well, correct?	2 3 4 5 6 7	Q Okay. In particular, you published a study with McCormack and Diette on common household exposures?  A I've published a bunch with her, so I don't know which which particular one that is.  Q All right. It's Common it's Common
3 4 5 6 7 8	Q Correct. And they then report in the all-cause mortality and RR was 1.23 for cardiovascular diseases. Do you see that?  A Yeah, although exactly right, yep. Q Okay. Now, there have been and this is work that you do as well, correct?  MS. BROWN: Objection to the form.	2 3 4 5 6 7 8	Q Okay. In particular, you published a study with McCormack and Diette on common household exposures?  A I've published a bunch with her, so I don't know which which particular one that is.  Q All right. It's Common it's Common Household Products, 2008." McCormack is the lead
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q Correct. And they then report in the all-cause mortality and RR was 1.23 for cardiovascular diseases. Do you see that?  A Yeah, although exactly right, yep. Q Okay. Now, there have been and this is work that you do as well, correct?  MS. BROWN: Objection to the form. BY MS. PARFITT: Q You do research work on secondhand smoke?  A I have done, yeah, and still do. Q Okay. And are you aware that in the United States and in other countries, there have been health programs implemented to reduce secondhand smoke based upon relative risks, like you've just seen, 1.1, 0.8, 1.2?  MR. LOCKE: Objection.  THE WITNESS: I mean, I don't know if the programs were based on these studies, and there certainly have been higher relative risks before. But I but I agree that there are	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q Okay. In particular, you published a study with McCormack and Diette on common household exposures?  A I've published a bunch with her, so I don't know which which particular one that is.  Q All right. It's Common it's Common Household Products, 2008." McCormack is the lead article author.  A What journal?  Q It is in the Environmental Res, Environmental  A Environmental research.  Q Research. And it's dated February 2008. And take a minute to  (Diette Exhibit No. 24 was marked for identification.)  BY MS. PARFITT:  Q Do you have that in front of you?  A I do.  Q Okay. Now, if you look at the first page under the abstract, about the third line

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	Page 370		Page 372
1	extensively characterized" excuse me. I'm	1	MS. BROWN: Objection to the form. You
2	sorry.	2	need the disease to link the
3	"There is a public health imperative to	3	MS. PARFITT: Lung. Lung.
4	characterize indoor sources of PM" I assume	4	MS. BROWN: You mean cancer? Objection
5	that's particulate matter?	5	to the form.
6	A Correct.	6	THE WITNESS: Anyway, I can't answer it.
7	Q "with this vulnerable population to	7	You need more in the sentence or the question in
8	enable effective intervention strategies."	8	order for me to be able to answer it.
9	Did I read that correctly?	9	BY MS. PARFITT:
10	A You did.	10	Q Okay. Are there any fair enough.
11	Q Okay. You were the lead one of the	11	Are there any reported relative risks
12	lead authors in that study?	12	between indoor particulate matter and lung
13	A Yeah, I was, by position, the senior	13	disease?
14	author, but I was the head of the the study	14	MS. BROWN: Objection to the form.
15	that produced this paper.	15	THE WITNESS: I'd want to be super
16	Q All right. And what is and do you	16	careful about what we're saying is lung disease,
17	have an opinion with regard to what the relative	17	because some people might think that that means
18	risks are for indoor ambient particulate matter?	18	the risk of developing a particular lung disease,
19	A For what?	19	and others might mean the worsening of an existing
20	Q For	20	disease or a lung function abnormality.
21	A You mean qualitative, like what	21	BY MS. PARFITT:
22	illnesses they cause or	22	Q Okay. Do you know what the relative
23	Q Yes, with regard I believe you	23	risk is between indoor particulate matter and
24	studied a bit of asthma, so I believe it would be	24	asthma?
25	the relative risk of indoor particulates and	25	A The risk of developing asthma?
	Page 371		Page 373
1	asthma?	1	Q Correct.
2	A Well, there's not one single way to	2	A It's not
3	answer that, right. So this this paper doesn't	3	MS. BROWN: Objection to the form.
4	look like the one that's actually quantified it,	4	THE WITNESS: Sorry. It's not known.
5	right. We have other ones that look at the	5	BY MS. PARFITT:
6	increase in, say, symptoms, for example, or	6	Q It's not known.
7	exacerbations per very small increment in	7	A Not known.
8	particulate matter.	8	Q It's not been published.
9	So like, I think if you if you're	9	A Well, I can't say there's not a single
10	looking at our studies, you're not going to find a	10	paper out there, but at this point the a
11	relative risk that's, like that's analogous to	11	summary of the evidence is that we can't say for
12	these where this is the relative risk of an	12	sure that it's that it causes asthma.
13	outcome for secondhand smoke, yes/no. Ours are	13	Q Have you reviewed in any of the
14	reported not by that but by little tiny increments	14	literature published data with regard to airborne
15	or decrements of of particle concentrations.	15	particles indoor airborne particles and asthma
16	Q Do you know what the relative risk is	16	as to what the relative risk may be?
17	for indoor ambient air?	17	MS. BROWN: Objection to form.
18	A That's	18	THE WITNESS: Relative risk of?
19	MS. BROWN: Objection to the form.	19	BY MS. PARFITT:
20	THE WITNESS: That's not a full	20	Q Relative risk of asthma from exposure to
21	question.	21	indoor air particulate.
22	question. BY MS. PARFITT:	22	MS. BROWN: Objection to the form.
23	Q Do you is there a relative risk for	23	THE WITNESS: So I I've read a ton or
	-		
24 25	exposure to the lungs in indoor particulate matter?	24 25	stuff about it. I mean if you've got a particular article, I'm happy to read it and interpret it.

#### Case 3:16-md-02738-MAS-RLS Document 9737-8 Filed 05/07/19 Page 220 of 516 PageID: 38920 Gregory B. Diette, M.D.

	Page 374		Page 376
1	But as of this point, I think we should I	1	meter cubed. It may be from a particular source,
2	explain or just	2	like traffic-related pollution or not.
3	BY MS. PARFITT:	3	I mean there's more to it. There's not
4	Q No, I all I really want to know in	4	just like some summary that that I can I can
5	the interest of time is whether or not you have	5	make. Maybe you can find somebody that can just
6	reviewed any of the scientific literature data	6	say particulate matter has this risk of causing
7	that reports what the relative risk is for indoor	7	asthma. I haven't seen it.
8	particulate matter and the risk of getting asthma?	8	But it's not there aren't like a whole
9	MS. BROWN: Objection to the form.	9	bunch of studies looking at the relationship
10	BY MS. PARFITT:	10	between indoor and outdoor particulate matter and
11	Q And if you haven't, that's fine.	11	lung disease as both, you know, developing newly
12	A Oh, my gosh, no, it's not that. I have.	12	and worsening the existing ones.
13	I just don't think that you can answer that	13	BY MS. PARFITT:
14	question. I'm not saying there's not some study	14	Q Right. Does secondhand smoke cause lung
15	out there that may estimate a risk for that, but	15	cancer?
16	it isn't established. Like, at this point, we	16	MS. BROWN: Objection to the form.
17	cannot say in 2019 that indoor particulate matter	17	THE WITNESS: It seems it seems that
18	causes asthma.	18	that that has been established.
19	And and you have to say more to the	19	(Counsel conferring.)
20	sentence. So let's just talk about like adults	20	BY MS. PARFITT:
21	living in the city. We can't say that. You	21	Q Okay. Let's talk a little bit
22	know you know, there's there's studies that	22	THE WITNESS: We're just doing a time
23	have looked at the relative risk of indoor	23	check. I'm just trying do you know roughly how
24	cooking, which is predominantly particulate	24	much we
25	matter, in developing countries, but even the	25	THE VIDEOGRAPHER: Five hours, 34
	Page 375		Page 377
1	asthma evidence is not fully developed.	1 ,	
		1	minutes.
2	So it's just it's one of those things	2	THE WITNESS: So a little under an hour
2 3			
	So it's just it's one of those things	2	THE WITNESS: So a little under an hour
3	So it's just it's one of those things where you may find a paper that has an estimate,	2 3	THE WITNESS: So a little under an hour and a half? Did you guys want to do a
3 4	So it's just it's one of those things where you may find a paper that has an estimate, but it hasn't been fully established yet.	2 3 4	THE WITNESS: So a little under an hour and a half? Did you guys want to do a MS. PARFITT: A quick break here? Sure.
3 4 5	So it's just it's one of those things where you may find a paper that has an estimate, but it hasn't been fully established yet.  Q All right. Do you I understand it's	2 3 4 5	THE WITNESS: So a little under an hour and a half? Did you guys want to do a MS. PARFITT: A quick break here? Sure. THE WITNESS: or a break here or
3 4 5 6	So it's just it's one of those things where you may find a paper that has an estimate, but it hasn't been fully established yet.  Q All right. Do you I understand it's not fully established, but are there reported relative risks from the scientific literature?	2 3 4 5 6	THE WITNESS: So a little under an hour and a half? Did you guys want to do a MS. PARFITT: A quick break here? Sure. THE WITNESS: or a break here or wait?
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	So it's just it's one of those things where you may find a paper that has an estimate, but it hasn't been fully established yet.  Q All right. Do you I understand it's not fully established, but are there reported relative risks from the scientific literature?  MS. BROWN: Objection.  THE WITNESS: I'm sure there are.  MS. BROWN: Objection  THE WITNESS: I'm sure there are, but  BY MS. PARFITT:  Q There are. Do you know what they are?  MS. BROWN: Objection to the form.  THE WITNESS: Oh, my gosh.  BY MS. PARFITT:  Q If you know. If like, do you know there is a range of relative risks between exposure to indoor particulate matter and asthma?  MS. BROWN: Objection to the form of the question.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	THE WITNESS: So a little under an hour and a half? Did you guys want to do a MS. PARFITT: A quick break here? Sure. THE WITNESS: or a break here or wait? MS. PARFITT: No, that's fine. We can take a quick one now. That's fine. THE VIDEOGRAPHER: The time is 3:50 p.m. We're going off the record. (Recess.) THE VIDEOGRAPHER: The time is 4:10 p.m. We're back on the record. We're on the record, by the way. (A discussion was held off the record.) (Diette Exhibit Nos. 25 and 26 were marked for identification.) BY MS. PARFITT: Q Are you ready, Dr. Diette? A I am. Thank you. Q Very good.

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	Page 378		Page 380
1	smoke and and lung cancer.	1	Q That's all right.
2	And what I would like you to do is	2	is related to secondhand smoke and
3	and I apologize, I don't have copies of this so	3	lung cancer?
4	I'm showing you what is the report of the Surgeon	4	MS. BROWN: Objection to the form.
5	General, I believe it was back in 2006, "The	5	THE WITNESS: It looks like it there. I
6	Health Consequences of Involuntary Exposure to	6	remember there's other numbers in there as well,
7	Tobacco Smoke, A Report of the Surgeon General."	7	but I mean, I remember it being 1-point something
8	Have you read that in the past?	8	and
9	A So definitely not every word, but I've	9	BY MS. PARFITT:
10	read big chunks of it.	10	Q Does that refresh my memory?
11	Q Okay. I figured with your work you may	11	MS. BROWN: Well, let him finish,
12	have.	12	please.
13	A Yeah.	13	THE WITNESS: I think there's somewhere
14	Q All right. Let me direct your attention	14	else in there where there's other estimates, but
15	to	15	still not like not sky high. Still less than
16	MS. PARFITT: And I apologize to all, so	16	2.0.
17	you have to look on the camera on the screen.	17	BY MS. PARFITT:
18	MS. BROWN: Okay. So just for the	18	Q But you don't disagree with the Surgeon
19	record, we don't have copies of this, and so I	19	General's conclusion that the pooled evidence
20	will object to the fact that we have no context or	20	indicates a 20 to 30 percent increase in the risk
21	ability to look at the document ourselves.	21	of lung cancer from secondhand smoke exposure
22	MS. PARFITT: All right.	22	associated with living with a smoker, correct?
23	BY MS. PARFITT:	23	MR. LOCKE: Objection.
24	Q And again, Doctor, you've reviewed this	24	MS. BROWN: Objection. He doesn't have
25	report, correct, in the past?	25	the document, he can't review it.
23	report, correct, in the past:		the document, he can treview it.
	Page 379		Page 381
1	A In the past, and I've read parts of it,	1	BY MS. PARFITT:
2	but as you know, I mean it's a humongous	2	Q Are you disputing that conclusion?
3	Q It is big.	3	MS. BROWN: Objection. He has no basis
4	A document, and so some parts	4	to do it, he doesn't have the document.
5	weren't weren't for me.	5	BY MS. PARFITT:
6	Q All right. I want to focus your	6	Q Are you disputing that, Doctor?
7	attention on the conclusions of the Surgeon	7	A I would
8	General's report.	8	MR. LOCKE: Objection.
9	And 1: "The evidence is sufficient to	9	THE WITNESS: I would say it fits with
10	infer a causal relationship between secondhand	10	what I understood to be true at the time that that
11	smoke exposure and lung cancer among lifetime	11	was published.
12	nonsmokers. This conclusion extends to all	12	BY MS. PARFITT:
		13	O Fair enough. Thank you. I appreciate
13	secondhand smoke exposure, regardless of location.		Q Fair enough. Thank you. I appreciate that.
13 14	secondhand smoke exposure, regardless of location.  "2. The pooled evidence that indicates"	14	that.
13 14 15	secondhand smoke exposure, regardless of location.  "2. The pooled evidence that indicates" sorry "the pooled evidence indicates a 20 to	14 15	that.  Dr. Diette, is it fair that to say
13 14 15 16	secondhand smoke exposure, regardless of location.  "2. The pooled evidence that indicates"  sorry "the pooled evidence indicates a 20 to 30 percent" that would be a 1.2 or 1.3 relative	14 15 16	that.  Dr. Diette, is it fair that to say that we don't have, and you've not reviewed, any
13 14 15 16 17	secondhand smoke exposure, regardless of location.  "2. The pooled evidence that indicates"  sorry "the pooled evidence indicates a 20 to 30 percent" that would be a 1.2 or 1.3 relative risk "increase in the risk of lung cancer from	14 15 16 17	that.  Dr. Diette, is it fair that to say that we don't have, and you've not reviewed, any Johnson Johnson & Johnson specific epidemiology
13 14 15 16 17 18	secondhand smoke exposure, regardless of location.  "2. The pooled evidence that indicates" sorry "the pooled evidence indicates a 20 to 30 percent" that would be a 1.2 or 1.3 relative risk "increase in the risk of lung cancer from secondhand smoke exposure associated with a	14 15 16 17 18	that.  Dr. Diette, is it fair that to say that we don't have, and you've not reviewed, any Johnson Johnson & Johnson specific epidemiology with regard to a study of just Johnson & Johnson
13 14 15 16 17 18	secondhand smoke exposure, regardless of location.  "2. The pooled evidence that indicates" sorry "the pooled evidence indicates a 20 to 30 percent" that would be a 1.2 or 1.3 relative risk "increase in the risk of lung cancer from secondhand smoke exposure associated with a smoker."	14 15 16 17 18 19	that.  Dr. Diette, is it fair that to say that we don't have, and you've not reviewed, any Johnson Johnson & Johnson specific epidemiology with regard to a study of just Johnson & Johnson Baby Powder?
13 14 15 16 17 18 19 20	secondhand smoke exposure, regardless of location.  "2. The pooled evidence that indicates" sorry "the pooled evidence indicates a 20 to 30 percent" that would be a 1.2 or 1.3 relative risk "increase in the risk of lung cancer from secondhand smoke exposure associated with a smoker."  Did I read that correctly?	14 15 16 17 18 19 20	that.  Dr. Diette, is it fair that to say that we don't have, and you've not reviewed, any Johnson Johnson & Johnson specific epidemiology with regard to a study of just Johnson & Johnson Baby Powder?  MS. BROWN: Objection to the form.
13 14 15 16 17 18 19 20 21	secondhand smoke exposure, regardless of location.  "2. The pooled evidence that indicates"  sorry "the pooled evidence indicates a 20 to 30 percent" that would be a 1.2 or 1.3 relative risk "increase in the risk of lung cancer from secondhand smoke exposure associated with a smoker."  Did I read that correctly?  A You did.	14 15 16 17 18 19 20 21	that.  Dr. Diette, is it fair that to say that we don't have, and you've not reviewed, any Johnson Johnson & Johnson specific epidemiology with regard to a study of just Johnson & Johnson Baby Powder?  MS. BROWN: Objection to the form. THE WITNESS: That is correct.
13 14 15 16 17 18 19 20 21 22	secondhand smoke exposure, regardless of location.  "2. The pooled evidence that indicates" sorry "the pooled evidence indicates a 20 to 30 percent" that would be a 1.2 or 1.3 relative risk "increase in the risk of lung cancer from secondhand smoke exposure associated with a smoker."  Did I read that correctly? A You did. Q And is that what the are those the	14 15 16 17 18 19 20 21 22	that.  Dr. Diette, is it fair that to say that we don't have, and you've not reviewed, any Johnson Johnson & Johnson specific epidemiology with regard to a study of just Johnson & Johnson Baby Powder?  MS. BROWN: Objection to the form. THE WITNESS: That is correct. BY MS. PARFITT:
13 14 15 16 17 18 19 20 21 22 23	secondhand smoke exposure, regardless of location.  "2. The pooled evidence that indicates" sorry "the pooled evidence indicates a 20 to 30 percent" that would be a 1.2 or 1.3 relative risk "increase in the risk of lung cancer from secondhand smoke exposure associated with a smoker."  Did I read that correctly?  A You did.  Q And is that what the are those the numbers, 1.2 and 1.3, the relative risks that the	14 15 16 17 18 19 20 21 22 23	that.  Dr. Diette, is it fair that to say that we don't have, and you've not reviewed, any Johnson Johnson & Johnson specific epidemiology with regard to a study of just Johnson & Johnson Baby Powder?  MS. BROWN: Objection to the form.  THE WITNESS: That is correct.  BY MS. PARFITT:  Q Okay. And so what we rely on, and what
13 14 15 16 17 18 19 20 21	secondhand smoke exposure, regardless of location.  "2. The pooled evidence that indicates" sorry "the pooled evidence indicates a 20 to 30 percent" that would be a 1.2 or 1.3 relative risk "increase in the risk of lung cancer from secondhand smoke exposure associated with a smoker."  Did I read that correctly? A You did. Q And is that what the are those the	14 15 16 17 18 19 20 21 22	that.  Dr. Diette, is it fair that to say that we don't have, and you've not reviewed, any Johnson Johnson & Johnson specific epidemiology with regard to a study of just Johnson & Johnson Baby Powder?  MS. BROWN: Objection to the form. THE WITNESS: That is correct. BY MS. PARFITT:

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ı	Page 382		Page 384
1	correct?	1	BY MS. PARFITT:
2	MS. BROWN: Objection to the form.	2	Q Okay. When you say it doesn't change
3	MR. LOCKE: Objection.	3	the totality of the evidence that we have
4	THE WITNESS: I I wouldn't	4	available for us, isn't it true that the presence
5	characterize it exactly that way. I mean I would	5	of a carcinogen, like asbestos in talcum powder
6	say that I can't really sort between different	6	products, supports the biological biologically
7	brands based on the epidemiologic literature, but	7	plausible mechanism for association between talcum
8	whatever all brands is, I don't you know, I	8	powder products and ovarian cancer?
9	don't know what that represents.	9	MS. BROWN: Objection to the form of the
10	BY MS. PARFITT:	10	question.
11	Q And would it be fair then if one product	11	THE WITNESS: I I'd say no. And for
12	that contained one product, talcum powder	12	reasons, if you want them, or just leave it at no.
13	product contained asbestos, and another did not,	13	BY MS. PARFITT:
14	that would result in a conclusion that would draw	14	Q Well, you've testified that asbestos is
15	it towards the null? Is that fair?	15	a carcinogen. Correct?
16	MS. BROWN: Objection to the question.	16	A Correct.
17	THE WITNESS: I don't understand that.	17	Q All right. And the fact that asbestos
18	BY MS. PARFITT:	18	might be in the talcum powder product does not
19	Q Okay.	19	impact your opinions with regard to the increased
20	A I mean I understand the idea of drawing	20	biologically plausible mechanism for talc to cause
21	something to the null. I just don't understand	21	ovarian cancer.
22	Q Sure.	22	MS. BROWN: Objection to the form. Are
23	A what preceded that.	23	you talking about a Johnson & Johnson product?
24	Q If you have a product like Johnson &	24	MS. PARFITT: Just generally.
25	Johnson, and you and it has a carcinogen in it,	25	MS. BROWN: Objection to the form.
1	and you lump it together with other products that	1	THE WITNESS: It it does not.
2	are not infected or contaminated with asbestos,	2	As you ask these things, I'm trying to
3	what does that do to the overall relative risk	3	figure out if I'm supposed to explain what I'm
4	A Oh.	4	saying or is
5	Q when studying that product?	5	MS. BROWN: No, you answered the
6	MS. BROWN: Objection to the incomplete	6	question.
7	hypothetical.	7	THE WITNESS: Okay.
8	THE WITNESS: So concept and reality,	8	MS. BROWN: She'll ask you another one
9	right. So the concept would be, if you knew that	9	if she has one.
10	there were enough asbestos that led to an exposure	10	THE WITNESS: Okay. All right.
11	that was enough in order to cause a disease from	11	BY MS. PARFITT:
12	one product, and it was pooled with another	12	Q Does Johnson & Johnson sell baby powder
13	product that didn't have that same amount or	13	that's 99 percent asbestos and 1 percent
14	didn't have any asbestos but you knew that there	14	fragrance?
15	was enough to cause disease, then it would it	15	MS. BROWN: Objection to the form of the
16	would do exactly what you're saying, is it would	16	question.
17	move it towards towards one.	17	THE WITNESS: If they do, I'm not aware
18	The reality is there wouldn't be any	18	of that.
19	impact whatsoever because the epidemiology already	19	BY MS. PARFITT:
	takes into account whatever those brands are, and	20	Q Okay. And if I understand, the presence
∠∪	so it doesn't change the totality of the evidence	21	of asbestos in a talcum powder product does not in
20 21		1	
21		22	your mind impact the biologically plausible
	that we have available for us.	22 23	your mind impact the biologically plausible mechanism for talcum powder products to cause
21 22		1	your mind impact the biologically plausible mechanism for talcum powder products to cause ovarian cancer.

Gregory B. Diette, M.D.

Page 388 Page 386 THE WITNESS: No, there's not enough 1 1 And then I think if you -- if you pair 2 information in what you said there. 2 that with more modern studies, if you take like 3 BY MS. PARFITT: 3 the Reid study from Australia, you take women who 4 4 worked, you know, in and around a crocidolite Q What would you need? 5 5 A So I would need a couple of things. One mine, they certainly had enough exposure to get 6 is I would need to have some estimate of what the 6 asbestos-related diseases, but they don't get 7 7 dose would be, and some assurance from somewhere. ovarian cancer. 8 which I don't have, that that represented a dose 8 And so I think that the -- you know, the 9 that was sufficient to cause -- and by dose, I'm 9 sum total of all that just -- it doesn't make 10 10 talking about dose of asbestos, right -- that that sense that just knowing the fact that there's some 11 11 was a sufficient dose to cause ovarian cancer. particle -- even if it's true, that some particle 12 12 of asbestos is going to be enough to cause And based on what I've seen, I can't 13 13 make that link. I can't -- I haven't seen disease. anything that says that there's a plausible 14 Q Okay. Have you -- have you read -- I 14 15 concentration or dose that people would be exposed 15 didn't see it in your reliance list -- Reid, 2012? 16 16 to that links to anything I can find in the A I have two Reeds, I think, and if I only 17 17 epidemiologic literature about how much, if any, listed one, I meant to include two. 18 it would take in order to -- to cause ovarian 18 Q Yeah, you only listed 2011 Reid. You cancer. And what I -- should I finish? didn't list 2012 Reid. 19 19 20 Q Mm-hmm, yeah, finish. 20 A I meant -- so I don't know which one is 21 21 A Okay. I'm sorry. there. There's one from Whitnum, which is the 22 22 Q I'm trying not to interpret you. study of the women that -- you know, that I was 23 23 A No, no, you're not. I didn't mean -- I just describing, and a separate one is -- it's 24 basic -- basically like a meta-analysis or a 2.4 didn't think you were. 25 25 Q So doing better. reanalysis of the ovarian cancer and asbestos Page 387 Page 389 1 A I didn't think you were. 1 literature. 2 So I mean there's more, right. I mean 2 Q Okay. Do you recall from your reading 3 so the -- if you look at IARC and what those 3 that the scientists in Reid 2012 determined that 4 studies represented, they represent for the most 4 childhood exposure to asbestos was associated with 5 part -- and by IARC, I'm talking about IARC and 5 an increased risk of cancer mortality which was 6 6 ovarian cancer and asbestos -- you know, mostly 3.5 times greater than the general population? Do 7 7 circumstances that aren't typical of American you recall those numbers? 8 A I don't, but cancer mortality to -women. For example, so women in Europe who were 8 9 working at a time and place when there was 9 MS. BROWN: Objection. 10 different forms and lots of asbestos that may have 10 THE WITNESS: Can you tell me which -been sufficient to cause other asbestos-related because I don't remember which year links to which 11 11 12 diseases. 12 Reid study. 13 So if you -- if those -- if those 13 BY MS. PARFITT: 14 findings are absolutely accurate -- you know, you 14 Q That was the 2012 that I was speaking 15 take away the issue of misclassification or 15 of. 16 anything else -- if they're absolutely accurate, 16 A No, I understand that. I heard the 17 you've got a relative risk in the neighborhood of 17 year, but I don't know what the title is. 18 like 1.75 or something like that. 18 Q Oh, the title is "All-cause mortality in 19 19 So I'm not saying that's not an cancer incidence among adults exposed to blue 20 20 asbestos during childhood." important risk, but it's not a huge risk, right? 21 21 So we're taking heavy industrial exposure to get A I think that's a third study then, 22 to a 1.75. I haven't seen anything that could 22 because I think the two I'm referring to are --23 tell me that anything we're talking about here 23 are two different ones. 24 could possibly rise to the level of heavy 24 Q All right. So did you read the 2012 or 25 industrial exposure. 25 that just wasn't one you read?

98 (Pages 386 to 389)

	Page 390		Page 392
1	MS. BROWN: Well, Counsel, can you show	1	THE WITNESS: I'm not disagreeing with
2	it to him and he'll tell you?	2	you, I think that's the language they use, but
3	MS. PARFITT: Sure.	3	they they used their their strongest
4	THE WITNESS: I don't know if either of	4	their strongest grading.
5	the ones that I cite, you know, that I'm familiar	5	BY MS. PARFITT:
6	with are from 2012, but I don't think I read the	6	Q How many of the IARC studies that formed
7	one that you're talking about.	7	the basis for IARC's conclusion that asbestos
8	BY MS. PARFITT:	8	causes ovarian cancer was there information
9	Q Okay. From looking at your curriculum	9	concerning the exposure and the dose?
10	vitae and the studies you cited, you cited Reid	10	A So I think you said something that you
11	actually you cited three Reids. You cited Reid	11	didn't mean to, because I think you said how many
12	2011, you cited Reid 2008, and you cited Reid	12	of the IARC studies that IARC considered. I
13		13	
14	2009. The study that you did not cite was Reid 2012.	14	think did you mean how many of the underlying
			studies that IARC considered?
15	A That that sounds believable. That	15	Q Correct.
16	makes sense.	16	A Okay. And so there's at least five that
17	Q All right. So for purposes of the	17	I remember that were like sort of factory worker
18	opinions in your report, you did not rely on Reid	18	type studies, and then I think there were a couple
19	2012, is that fair?	19	of more. I'd have to go back, though, to look and
20	MS. BROWN: Objection to the form of the	20	see what what they had about dose, if anything.
21	question.	21	My I'm thinking like at least for the World
22	THE WITNESS: I I don't think I'm	22	War II era ones, they probably didn't have good
23	familiar with that study.	23	measures at all, you know, if any.
24	BY MS. PARFITT:	24	Q Okay. Let me show you what I will have
25	Q Okay. Fair enough.	25	marked as Exhibit 27.
	Page 391		Page 393
1	Are you able to share with us,	1	(Diette Exhibit No. 27 was marked
2	Dr. Diette, what the minimum dose of asbestos is	2	for identification.)
3	necessary in order to cause an ovarian cancer?	3	MR. ROSEN: 26, for the record, is the
4	MS. BROWN: Objection to the form of the	4	Surgeon General's report, which we'll supplement
5	question.	5	with a paper copy.
6	THE WITNESS: I haven't seen that	6	THE WITNESS: The same one the same
7	published. I can tell you that at least in one of	7	one that we were talking about before the
8	those Whitnum studies that women were exposed to	8	secondhand smoke or involuntary smoke?
9	as much as 40 fiber/cc years cumulatively of	9	MR. ROSEN: Right, so there won't be a
10	crocidolite, and and that apparently wasn't	10	26 in the file.
11	enough to cause ovarian cancer. But I didn't see,	11	THE WITNESS: Got you.
12	you know, good measurements or estimates from	12	BY MS. PARFITT:
13	the the more historic to say what the exposures	13	Q Let me show you what we have marked as
	were.	14	Exhibit 27.
14	were.		
14 15	BY MS. PARFITT:	15	Do you have that in front of you?
		15 16	Do you have that in front of you?  A I have the "Arsenic, Metals, Fibres and
15	BY MS. PARFITT:		
15 16	BY MS. PARFITT:  Q Okay. IARC looked at the issue of	16	A I have the "Arsenic, Metals, Fibres and
15 16 17	BY MS. PARFITT:  Q Okay. IARC looked at the issue of asbestos and ovarian cancer, correct?	16 17	A I have the "Arsenic, Metals, Fibres and Dusts," 100C IARC.
15 16 17 18	BY MS. PARFITT:  Q Okay. IARC looked at the issue of asbestos and ovarian cancer, correct?  A They did.	16 17 18	A I have the "Arsenic, Metals, Fibres and Dusts," 100C IARC.  Q That's correct, that's the right one. Okay. Let me direct your attention to
15 16 17 18 19	BY MS. PARFITT:  Q Okay. IARC looked at the issue of asbestos and ovarian cancer, correct?  A They did.  MS. BROWN: Form.	16 17 18 19	A I have the "Arsenic, Metals, Fibres and Dusts," 100C IARC.  Q That's correct, that's the right one. Okay. Let me direct your attention to the bottom of page 253.
15 16 17 18 19 20	BY MS. PARFITT:  Q Okay. IARC looked at the issue of asbestos and ovarian cancer, correct?  A They did.  MS. BROWN: Form.  THE WITNESS: Sorry.  BY MS. PARFITT:	16 17 18 19 20	A I have the "Arsenic, Metals, Fibres and Dusts," 100C IARC.  Q That's correct, that's the right one. Okay. Let me direct your attention to
15 16 17 18 19 20 21	BY MS. PARFITT:  Q Okay. IARC looked at the issue of asbestos and ovarian cancer, correct?  A They did.  MS. BROWN: Form.  THE WITNESS: Sorry.	16 17 18 19 20 21	A I have the "Arsenic, Metals, Fibres and Dusts," 100C IARC.  Q That's correct, that's the right one.  Okay. Let me direct your attention to the bottom of page 253.  Do you have that?  A 253?
15 16 17 18 19 20 21 22	BY MS. PARFITT:  Q Okay. IARC looked at the issue of asbestos and ovarian cancer, correct?  A They did.  MS. BROWN: Form.  THE WITNESS: Sorry.  BY MS. PARFITT:  Q All right. IARC concluded that asbestos	16 17 18 19 20 21 22	A I have the "Arsenic, Metals, Fibres and Dusts," 100C IARC.  Q That's correct, that's the right one.  Okay. Let me direct your attention to the bottom of page 253.  Do you have that?  A 253?

99 (Pages 390 to 393)

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	Page 394		Page 396
1	examination of the association between asbestos	1	Q Okay. Do you see where the working
2	and ovarian cancer was not undertaken by the IOM,"	2	group of IARC considered all of the data, and they
3	and then it has a 2000 a 2006 date. Correct?	3	made a determination that there were not, at the
4	A Yes.	4	bottom, sufficient they ruled out the
5	Q Okay. Now, before we get to Table 2.8,	5	possibility that there may have been a
6	what I want you to do is turn over to page 256.	6	misdiagnosis.
7	All right. And again, directing your	7	Do you see that?
8	attention to the far right column. Are you there?	8	MS. BROWN: Objection to the form.
9	And it starts with, "Working group"?	9	THE WITNESS: I see that they've that
10	A I am. I'm sorry, I'm distracted because	10	they reached that that conclusion.
11	I think there's	11	BY MS. PARFITT:
12	MS. BROWN: It has a weird	12	Q Okay. And that's different than the
13	THE WITNESS: there's like a font	13	conclusion you raised in your report, correct?
14	issue or something, like somebody's printer didn't	14	A Well, it's different
15	have the right	15	MS. BROWN: Objection.
16	BY MS. PARFITT:	16	THE WITNESS: It is different, yes.
17	Q That might have been ours. I apologize.	17	BY MS. PARFITT:
18	Not ideal circumstances.	18	Q All okay. Right. Let's go back to
19	All right. Do you see where it says,	19	again page 253.
20	"The working group"?	20	And you will see it references a table,
21	A I do.	21	Table 2.8. Do you see that on the top of 254?
22	Q All right. "The working group noted	22	A Okay.
23	that a causal association between exposure to	23	Q Okay. Got that.
24	asbestos and cancer of the ovary was clearly	24	Okay. Let me show you what we'll have
25	established based on five strongly positive cohort	25	marked as Exhibit 28.
	Page 395		Page 397
1	mortality studies of women with heavy occupational	1	Page 397 (Diette Exhibit No. 28 was marked
1 2		1 2	Page 397 (Diette Exhibit No. 28 was marked for identification.)
	mortality studies of women with heavy occupational		Page 397  (Diette Exhibit No. 28 was marked for identification.) BY MS. PARFITT:
2	mortality studies of women with heavy occupational exposure to asbestos."	2	Page 397 (Diette Exhibit No. 28 was marked for identification.)
2	mortality studies of women with heavy occupational exposure to asbestos."  Do you see that?	2 3	Page 397  (Diette Exhibit No. 28 was marked for identification.) BY MS. PARFITT:
2 3 4	mortality studies of women with heavy occupational exposure to asbestos."  Do you see that?  A I do.	2 3 4	Page 397  (Diette Exhibit No. 28 was marked for identification.)  BY MS. PARFITT:  Q Okay. Diette Exhibit 28, if you will.
2 3 4 5	mortality studies of women with heavy occupational exposure to asbestos."  Do you see that?  A I do.  Q Okay. And then if you go and then it	2 3 4 5	Page 397  (Diette Exhibit No. 28 was marked for identification.)  BY MS. PARFITT:  Q Okay. Diette Exhibit 28, if you will.  There you go.
2 3 4 5 6	mortality studies of women with heavy occupational exposure to asbestos."  Do you see that?  A I do.  Q Okay. And then if you go and then it cites those studies.	2 3 4 5 6	Page 397  (Diette Exhibit No. 28 was marked for identification.)  BY MS. PARFITT:  Q Okay. Diette Exhibit 28, if you will.  There you go.  MS. PARFITT: And, Counsel, I have a
2 3 4 5 6 7	mortality studies of women with heavy occupational exposure to asbestos."  Do you see that?  A I do.  Q Okay. And then if you go and then it cites those studies.  Do you see that?	2 3 4 5 6 7	Page 397  (Diette Exhibit No. 28 was marked for identification.)  BY MS. PARFITT:  Q Okay. Diette Exhibit 28, if you will.  There you go.  MS. PARFITT: And, Counsel, I have a copy for you.
2 3 4 5 6 7 8	mortality studies of women with heavy occupational exposure to asbestos."  Do you see that?  A I do.  Q Okay. And then if you go and then it cites those studies.  Do you see that?  A I do.	2 3 4 5 6 7 8	Page 397  (Diette Exhibit No. 28 was marked for identification.)  BY MS. PARFITT:  Q Okay. Diette Exhibit 28, if you will.  There you go.  MS. PARFITT: And, Counsel, I have a copy for you.  MS. BROWN: Thank you.
2 3 4 5 6 7 8	mortality studies of women with heavy occupational exposure to asbestos."  Do you see that?  A I do.  Q Okay. And then if you go and then it cites those studies.  Do you see that?  A I do.  Q And go down to where it starts: "The	2 3 4 5 6 7 8	Page 397  (Diette Exhibit No. 28 was marked for identification.)  BY MS. PARFITT:  Q Okay. Diette Exhibit 28, if you will.  There you go.  MS. PARFITT: And, Counsel, I have a copy for you.  MS. BROWN: Thank you.  MS. PARFITT: Of course.
2 3 4 5 6 7 8 9	mortality studies of women with heavy occupational exposure to asbestos."  Do you see that?  A I do.  Q Okay. And then if you go and then it cites those studies.  Do you see that?  A I do.  Q And go down to where it starts: "The working group carefully considered the	2 3 4 5 6 7 8 9	Page 397  (Diette Exhibit No. 28 was marked for identification.)  BY MS. PARFITT:  Q Okay. Diette Exhibit 28, if you will.  There you go.  MS. PARFITT: And, Counsel, I have a copy for you.  MS. BROWN: Thank you.  MS. PARFITT: Of course.  Sorry, guys. I'm going to need one.
2 3 4 5 6 7 8 9 10	mortality studies of women with heavy occupational exposure to asbestos."  Do you see that?  A I do.  Q Okay. And then if you go and then it cites those studies.  Do you see that?  A I do.  Q And go down to where it starts: "The working group carefully considered the possibilities that cases of peritoneal	2 3 4 5 6 7 8 9 10	(Diette Exhibit No. 28 was marked for identification.) BY MS. PARFITT: Q Okay. Diette Exhibit 28, if you will. There you go. MS. PARFITT: And, Counsel, I have a copy for you. MS. BROWN: Thank you. MS. PARFITT: Of course. Sorry, guys. I'm going to need one. I'm sorry. I'll give you this one later.
2 3 4 5 6 7 8 9 10 11 12	mortality studies of women with heavy occupational exposure to asbestos."  Do you see that?  A I do.  Q Okay. And then if you go and then it cites those studies.  Do you see that?  A I do.  Q And go down to where it starts: "The working group carefully considered the possibilities that cases of peritoneal mesothelioma may have been misdiagnosed as ovarian	2 3 4 5 6 7 8 9 10 11 12	(Diette Exhibit No. 28 was marked for identification.) BY MS. PARFITT: Q Okay. Diette Exhibit 28, if you will. There you go. MS. PARFITT: And, Counsel, I have a copy for you. MS. BROWN: Thank you. MS. PARFITT: Of course. Sorry, guys. I'm going to need one. I'm sorry. I'll give you this one later. BY MS. PARFITT:
2 3 4 5 6 7 8 9 10 11 12 13	mortality studies of women with heavy occupational exposure to asbestos."  Do you see that?  A I do.  Q Okay. And then if you go and then it cites those studies.  Do you see that?  A I do.  Q And go down to where it starts: "The working group carefully considered the possibilities that cases of peritoneal mesothelioma may have been misdiagnosed as ovarian cancer, and that these contributed to the observed	2 3 4 5 6 7 8 9 10 11 12 13	(Diette Exhibit No. 28 was marked for identification.) BY MS. PARFITT: Q Okay. Diette Exhibit 28, if you will. There you go. MS. PARFITT: And, Counsel, I have a copy for you. MS. BROWN: Thank you. MS. PARFITT: Of course. Sorry, guys. I'm going to need one. I'm sorry. I'll give you this one later. BY MS. PARFITT: Q Okay. I will represent to you that that
2 3 4 5 6 7 8 9 10 11 12 13 14	mortality studies of women with heavy occupational exposure to asbestos."  Do you see that?  A I do.  Q Okay. And then if you go and then it cites those studies.  Do you see that?  A I do.  Q And go down to where it starts: "The working group carefully considered the possibilities that cases of peritoneal mesothelioma may have been misdiagnosed as ovarian cancer, and that these contributed to the observed excesses."	2 3 4 5 6 7 8 9 10 11 12 13 14	(Diette Exhibit No. 28 was marked for identification.)  BY MS. PARFITT:  Q Okay. Diette Exhibit 28, if you will.  There you go.  MS. PARFITT: And, Counsel, I have a copy for you.  MS. BROWN: Thank you.  MS. PARFITT: Of course.  Sorry, guys. I'm going to need one.  I'm sorry. I'll give you this one later.  BY MS. PARFITT:  Q Okay. I will represent to you that that is that is Table 2.8, which is referenced in
2 3 4 5 6 7 8 9 10 11 12 13 14 15	mortality studies of women with heavy occupational exposure to asbestos."  Do you see that?  A I do.  Q Okay. And then if you go and then it cites those studies.  Do you see that?  A I do.  Q And go down to where it starts: "The working group carefully considered the possibilities that cases of peritoneal mesothelioma may have been misdiagnosed as ovarian cancer, and that these contributed to the observed excesses."  Do you see that?	2 3 4 5 6 7 8 9 10 11 12 13 14 15	(Diette Exhibit No. 28 was marked for identification.)  BY MS. PARFITT:  Q Okay. Diette Exhibit 28, if you will.  There you go.  MS. PARFITT: And, Counsel, I have a copy for you.  MS. BROWN: Thank you.  MS. PARFITT: Of course.  Sorry, guys. I'm going to need one.  I'm sorry. I'll give you this one later.  BY MS. PARFITT:  Q Okay. I will represent to you that that is that is Table 2.8, which is referenced in the IARC report on page 253 and 254.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	mortality studies of women with heavy occupational exposure to asbestos."  Do you see that?  A I do.  Q Okay. And then if you go and then it cites those studies.  Do you see that?  A I do.  Q And go down to where it starts: "The working group carefully considered the possibilities that cases of peritoneal mesothelioma may have been misdiagnosed as ovarian cancer, and that these contributed to the observed excesses."  Do you see that?  A I do.  Q Okay. Did I read that correctly?  A Yes.  Q Okay. In your report you stated that it was your belief that perhaps the results were limited by virtue of the fact that there may have been misdiagnosis between peritoneal mesothelioma	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	(Diette Exhibit No. 28 was marked for identification.)  BY MS. PARFITT:  Q Okay. Diette Exhibit 28, if you will.  There you go.  MS. PARFITT: And, Counsel, I have a copy for you.  MS. BROWN: Thank you.  MS. PARFITT: Of course.  Sorry, guys. I'm going to need one.  I'm sorry. I'll give you this one later.  BY MS. PARFITT:  Q Okay. I will represent to you that that is that is Table 2.8, which is referenced in the IARC report on page 253 and 254.  And it says: "Epidemiological studies of asbestos exposure and ovarian cancer," and then in parens, "and for comparison, lung cancer and mesothelioma."  Do you see that?  A I do.

100 (Pages 394 to 397)

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	Page 398		Page 400
1	risk for ovarian cancer and lung cancer, for	1	BY MS. PARFITT:
2	ovarian cancer it was 2.75, and for lung cancer it	2	Q Sure.
3	was 2.41. Do you see that?	3	A In one of your questions a little while
4	A I do.	4	back, you were asking me to agree that you were
5	Q Okay. Then move down to the Wignall and	5	reading fine, and you were for the relative risks.
6	Fox study. It's a 1982 study. Do you see that?	6	Q Yeah.
7	A I don't oh, yeah, the next one down,	7	A None of these are relative risks,
8	yeah.	8	though. They're SMRs and SIRs. So just a
9	Q Okay, yeah. Do you see that the	9	slightly different
10	relative risk for ovarian cancer were 2.13, and	10	Q I appreciate that. Thank you. Thank
11	for lung cancer 2.73?	11	you for the correction. Thank you.
12	A Correct.	12	Next question. Do you intend to give an
13	Q And let's move down to Pira in 2005. Do	13	opinion that fibrous talc is a carcinogen?
14	you see where the relative risk for ovarian cancer	14	MS. BROWN: Form.
15	were 2.61 and for lung cancer 2.82?	15	THE WITNESS: I'm not sure I understand
16	A I do.	16	what fibrous tale is.
17	Q All right. And then let's move to	17	BY MS. PARFITT:
18	Magnani, a 2008 study.	18	Q Okay. Let me direct your attention
19	All right. Do you see and this is	19	to we'll go back to the IARC on ovarian
20	one of the studies that the working group of IARC	20	cancer or, excuse me, IARC on asbestos.
21	looked at. They determined that the relative risk	21	Paragraph 1.1 on page 219.
22	for not determined they indicated that the	22	Are you there?
23	relative risk for ovarian cancer on the Magnani	23	A Paragraph 1, yes.
24	study was 2.27, and for lung cancer 2.20.	24	Q Yes. Okay. Do you see where after it
25	Do you see that?	25	has IARC, '73, and USGS, 2001, it states: "The
	Page 399		Page 401
1	A I do.	1	conclusions reached in this monograph about
2	Q All right. And let's go on to the	2	asbestos and its carcinogenic risks apply to these
3	Ferrante study. Do you see that?	3	six types of fibres wherever they are found, and
4	MS. BROWN: Where where are you?	4	that includes talc containing asbestiform fibres."
5	MS. PARFITT: On the last page.	5	Do you see that?
6	BY MS. PARFITT:	"	Do you see that.
О	DI MS. PARTIII.	6	A Yes.
7	Q Do you see that? It's on the last page,		•
		6	A Yes.
7	Q Do you see that? It's on the last page,	6 7	A Yes. Q All right. Do you intend to give an opinion in this case that talc containing asbestiform fibers can cause ovarian cancer?
7 8	Q Do you see that? It's on the last page, Ferrante, 2007. Do you see that?	6 7 8	A Yes. Q All right. Do you intend to give an opinion in this case that talc containing
7 8 9	Q Do you see that? It's on the last page, Ferrante, 2007. Do you see that? A I do.	6 7 8 9	A Yes. Q All right. Do you intend to give an opinion in this case that talc containing asbestiform fibers can cause ovarian cancer?
7 8 9 10	<ul><li>Q Do you see that? It's on the last page,</li><li>Ferrante, 2007. Do you see that?</li><li>A I do.</li><li>Q Okay. And the relative risk for ovarian</li></ul>	6 7 8 9 10	A Yes. Q All right. Do you intend to give an opinion in this case that talc containing asbestiform fibers can cause ovarian cancer? MS. BROWN: Objection to the form.
7 8 9 10 11	<ul> <li>Q Do you see that? It's on the last page,</li> <li>Ferrante, 2007. Do you see that?</li> <li>A I do.</li> <li>Q Okay. And the relative risk for ovarian cancer was 1.43, and for lung cancer it was 1.17.</li> </ul>	6 7 8 9 10 11	A Yes. Q All right. Do you intend to give an opinion in this case that talc containing asbestiform fibers can cause ovarian cancer? MS. BROWN: Objection to the form. That's different than the original question.
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	Page 402		Page 404
1	increase carcinogenic risk if there's enough of a	1	sufficient dose. It's not a measurement of dose.
2	dose.	2	It's an indicator of sufficient sufficient
3	BY MS. PARFITT:	3	exposure to be linkable to things like lung
4	Q Okay. Did you see anywhere in the IARC	4	cancer.
5	working group document that we've been talking	5	The same kind of question for being
6	about that the working group determined that there	6	around coworkers, and so a yes/no to that has been
7	was a causal association between asbestos and	7	sufficient.
8	ovarian cancer, but it depended on the dose?	8	In our other studies, we we get more
9	MR. LOCKE: Objection.	9	precise so that we'll and use a variety of
10	MS. BROWN: Objection to the form of the	10	overlapping methods. So one is to to query
11	question.	11	if it's a child study, to query the parent about
12	THE WITNESS: I don't recall.	12	the number of cigarettes that are smoked per day
13	BY MS. PARFITT:	13	in the home, and with a very elaborate procedure
14	Q Okay. You've worked an secondhand smoke	14	of asking not only the person who is answering the
15	studies, correct?	15	questionnaire but about all the other people that
16	A Yes.	16	are in and out of the house that day, so we get a
17	Q How do you determine the dose for those?	17	count of cigarettes.
18	MS. BROWN: Objection to the form.	18	We also use different types of
19	THE WITNESS: So the dose of secondhand	19	particulate matter monitors, and we've established
20	smoke?	20	that you can estimate about 1 microgram per meter
21	BY MS. PARFITT:	21	cubed of particulate matter per cigarette smoked
22	Q Mm-hmm.	22	in the home. So we've got an estimate that way.
23	A So it depends, right. So at the moment,	23	We we collect nicotine and cotinine
24	it so it depends upon which kind of study. And	24	from a variety of sources, so we've collected
25	when you say "you," do you mean you in the broad	25	hair, saliva, urine, and blood. And so depending
	Page 403		Page 405
1	sense or me, Greg Diette?	1	upon which study and which population, we can
2	Q Well, Greg Diette has been doing	2	estimate something about dose based on what
3	research on secondhand smoke, and you, Greg	3	their what their sort of biomarker is.
4	Diette, has indicated that dose is important to	4	Q All right. How much have you
5	you. So what I'd like to know is how you measure	5	understanding those metrics, for lack of a better
6	the dose in your secondhand smoke.	6	word, how much smoke does a patient need to
7	A Yeah, so a lot of different	7	actually inhale?
8	MS. BROWN: Objection. Dose is	8	MS. BROWN: For what?
9	important to him as it relates to secondhand	9	BY MS. PARFITT:
10	smoke, is that what the question is asking?	10	Q In order to determine whether or not
11	MS. PARFITT: No.	11	they have been impacted by secondhand smoke.
12	BY MS. PARFITT:	12	MS. BROWN: Objection to the form.
13	Q I was just reiterating that you,	13	THE WITNESS: That's a complicated
14	Dr. Diette, have done several secondhand smoke	14	question, I guess, because we don't at least in
	studies, correct?	15	our studies, we don't measure like I don't know
15			· · · · · · · · · · · · · · · · · · ·
16	A Yes.	16	what that means, like how much they inhale. I can
16 17	<ul><li>A Yes.</li><li>Q Okay. And how do you measure the dose</li></ul>	17	tell you, you know, what their absorbed dose is of
16 17 18	A Yes.  Q Okay. And how do you measure the dose in the studies that you have performed?	17 18	tell you, you know, what their absorbed dose is of nicotine, right, which has some implication about
16 17 18 19	A Yes. Q Okay. And how do you measure the dose in the studies that you have performed? A So different ways, depending upon the	17 18 19	tell you, you know, what their absorbed dose is of nicotine, right, which has some implication about how much they might have inhaled, but I don't
16 17 18 19 20	A Yes. Q Okay. And how do you measure the dose in the studies that you have performed? A So different ways, depending upon the studies. So for some studies, it's simple enough	17 18 19 20	tell you, you know, what their absorbed dose is of nicotine, right, which has some implication about how much they might have inhaled, but I don't relate that to like sort of a volume of smokey air
16 17 18 19 20 21	A Yes. Q Okay. And how do you measure the dose in the studies that you have performed? A So different ways, depending upon the studies. So for some studies, it's simple enough to ask, especially if you're talking about an	17 18 19 20 21	tell you, you know, what their absorbed dose is of nicotine, right, which has some implication about how much they might have inhaled, but I don't relate that to like sort of a volume of smokey air or something like that, the way that you might if
16 17 18 19 20 21 22	A Yes. Q Okay. And how do you measure the dose in the studies that you have performed? A So different ways, depending upon the studies. So for some studies, it's simple enough to ask, especially if you're talking about an adult, whether or not they've had secondhand smoke	17 18 19 20 21 22	tell you, you know, what their absorbed dose is of nicotine, right, which has some implication about how much they might have inhaled, but I don't relate that to like sort of a volume of smokey air or something like that, the way that you might if you were doing like a smoke machine, you know,
16 17 18 19 20 21 22 23	A Yes. Q Okay. And how do you measure the dose in the studies that you have performed? A So different ways, depending upon the studies. So for some studies, it's simple enough to ask, especially if you're talking about an adult, whether or not they've had secondhand smoke exposure from their parents, often broken down by	17 18 19 20 21 22 23	tell you, you know, what their absorbed dose is of nicotine, right, which has some implication about how much they might have inhaled, but I don't relate that to like sort of a volume of smokey air or something like that, the way that you might if you were doing like a smoke machine, you know, study.
16 17 18 19 20 21 22	A Yes. Q Okay. And how do you measure the dose in the studies that you have performed? A So different ways, depending upon the studies. So for some studies, it's simple enough to ask, especially if you're talking about an adult, whether or not they've had secondhand smoke	17 18 19 20 21 22	tell you, you know, what their absorbed dose is of nicotine, right, which has some implication about how much they might have inhaled, but I don't relate that to like sort of a volume of smokey air or something like that, the way that you might if you were doing like a smoke machine, you know,

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	Page 406		Page 408
1	inhaled it enough in order to get that particular	1	couple-year study and, you know, tens of thousands
2	fluid level high enough to for you to measure	2	of dollars spent doing it?
3	it. And same with saliva and same with hair.	3	MR. LOCKE: Objection.
4	BY MS. PARFITT:	4	MS. BROWN: Objection to the form.
5	Q Okay.	5	There are multiple questions in there, Counsel.
6	A I left one out too. We also measure	6	Can you rephrase?
7	airborne nicotine, and so that's another	7	BY MS. PARFITT:
8	indicator. So I was talking about cotinine that's	8	Q Do you understand the question?
9	measured in in the people, but we also have	9	A The the last part you said I'll
10	nicotine matches, and we'll measure nicotine	10	try to paraphrase it so we know we're talking
11	directly in the environment.	11	about the same thing. I have not I have not
12	Q Based upon I meant to ask this	12	done anything to inform the medical community
13	earlier. Based upon your study of ovarian cancer	13	about the findings so far from my you know,
14	and talcum powder products that you've done for	14	from my work on these cases.
15	Johnson & Johnson, have you made any of these	15	Q Do you intend to do so?
16	recommendations to Johnson & Johnson as to how	16	A I don't have any active intention to do
17	what kind of study they could perform in order to	17	it right now.
18	ascertain dose?	18	Q Okay. Do you intend to have your report
19	MS. BROWN: What?	19	peer published?
20	MR. LOCKE: Objection.	20	A It's not in the right format for that.
21	MS. BROWN: Objection to the form of the	21	Q Okay. Do you intend to do any
22	question.	22	meta-analysis of your work?
23	BY MS. PARFITT:	23	MS. BROWN: Objection to the form.
24	Q Let me ask it again.	24	THE WITNESS: Not on that not on that
25	A Oh, no, I heard it. I was just I	25	topic.
	Page 407		Page 409
			3
1	guess the broad answer is no. I mean I haven't	1	BY MS. PARFITT:
1 2	guess the broad answer is no. I mean I haven't made any recommendations about studies to Johnson	1 2	BY MS. PARFITT:
	_		
2	made any recommendations about studies to Johnson & Johnson for for anything.	2	BY MS. PARFITT:  Q Okay. And if you saw with regard to Health Canada, they have given they gave
2	made any recommendations about studies to Johnson	2 3	BY MS. PARFITT:  Q Okay. And if you saw with regard to Health Canada, they have given they gave individuals an opportunity to comment on the work
2 3 4	made any recommendations about studies to Johnson & Johnson for for anything.  Q Okay. And the reason I ask is, your	2 3 4	BY MS. PARFITT:  Q Okay. And if you saw with regard to Health Canada, they have given they gave
2 3 4 5	made any recommendations about studies to Johnson & Johnson for for anything.  Q Okay. And the reason I ask is, your work appears to be reviewing and surveying the	2 3 4 5	BY MS. PARFITT:  Q Okay. And if you saw with regard to Health Canada, they have given they gave individuals an opportunity to comment on the work that they did and present that to them.
2 3 4 5 6	made any recommendations about studies to Johnson & Johnson for for anything.  Q Okay. And the reason I ask is, your work appears to be reviewing and surveying the literature for Johnson & Johnson in order to give	2 3 4 5 6	BY MS. PARFITT:  Q Okay. And if you saw with regard to Health Canada, they have given they gave individuals an opportunity to comment on the work that they did and present that to them. You saw that, correct? A Yes.
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	Page 410		Page 412
1	Q Something opportunist came up. Is that	1	MS. BROWN: Objection.
2	the fact that you are being engaged in this	2	THE WITNESS: The only studies I've seen
3	litigation	3	are the ones that I think that were cited by
4	A No.	4	by IARC with if that's what we're talking
5	MS. BROWN: Objection	5	about, is like women who were about to have
6	BY MS. PARFITT:	6	surgery for some other reason and and different
7	Q as an expert witness?	7	things placed either in their uterus or vagina,
8	MS. BROWN: Objection to the form.	8	although not necessarily talc. I mean all kinds
9	THE WITNESS: Oh, no, I just see I	9	of things, you know, carbon particles,
10	think the reason that I have it in front of me is	10	radiolabeled particles, different things that
11	because it it seemed to help help	11	aren't talc.
12	plaintiffs' experts to be able to say something	12	(Counsel conferring.)
13	else about this this story. And if if it	13	BY MS. PARFITT:
14	had said something else, then I probably wouldn't	14	Q So sitting here today, is it your
15	even have heard about it.	15	testimony that you have not reviewed or seen in
16	BY MS. PARFITT:	16	the medical literature that particles of talc can
17	Q Okay. This story, Dr. Diette, is about	17	migrate to the ovaries, lymph nodes, of a woman's
18	women who are dying of ovarian cancer	18	body?
19	MS. BROWN: Careful what's the	19	MS. BROWN: Objection to the form of the
20	question?	20	question.
21	BY MS. PARFITT:	21	MR. LOCKE: Objection.
22	Q having been exposed to talcum powder	22	THE WITNESS: So so the study would
23	products.	23	be one where somebody applied talc to the perineum
24	Do you understand that?	24	and then demonstrated that it migrated from there
25	MR. LOCKE: Objection.	25	to the ovaries or into some lymph node somewhere?
	Page 411		Page 413
1	MS. BROWN: Objection to the form of the	1	BY MS. PARFITT:
2	question.	2	Q That's right.
3	THE WITNESS: I understand the general	3	A I have not seen that study.
4	notion is about ovarian cancer and whether there	4	Q Okay. You've read the Schildkraut
5	is or is not a risk from talcum powder.	5	study, correct?
6	BY MS. PARFITT:	6	A Yes.
7	Q I appreciate that.	7	Q Okay. Do you agree with the authors of
8	All right, Dr. Diette, do you agree that	8	the Schildkraut study that chronic inflammation
9	there is scientific evidence published in the	9	resulting from the use of exposure to baby powder,
10	peer-reviewed journal that talcum powder products	10	whether through inhalation or through a
11	can migrate from the vagina to the peritoneal	11	transvaginal route, may lead to an increased risk
12	capacity up through the ovaries?	12	of ovarian cancer?
		1	
13	MS. BROWN: Objection to the form.	13	MR. LOCKE: Objection.
14	MS. BROWN: Objection to the form. MR. LOCKE: Objection.	13 14	MR. LOCKE: Objection. MS. BROWN: Objection to the form of the
14 15	MS. BROWN: Objection to the form. MR. LOCKE: Objection. THE WITNESS: From the perineum?	14 15	MS. BROWN: Objection to the form of the question.
14	MS. BROWN: Objection to the form.  MR. LOCKE: Objection.  THE WITNESS: From the perineum?  BY MS. PARFITT:	14 15 16	MS. BROWN: Objection to the form of the question.  THE WITNESS: I've read the study. I'd
14 15	MS. BROWN: Objection to the form.  MR. LOCKE: Objection.  THE WITNESS: From the perineum?  BY MS. PARFITT:  Q From the perineum.	14 15	MS. BROWN: Objection to the form of the question.
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14 15 16 17	MS. BROWN: Objection to the form.  MR. LOCKE: Objection.  THE WITNESS: From the perineum?  BY MS. PARFITT:  Q From the perineum.	14 15 16 17	MS. BROWN: Objection to the form of the question.  THE WITNESS: I've read the study. I'd like to see whether that's in the introduction or the conclusion.  BY MS. PARFITT:
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14 15 16 17 18 19 20 21	MS. BROWN: Objection to the form.  MR. LOCKE: Objection.  THE WITNESS: From the perineum?  BY MS. PARFITT:  Q From the perineum.  MS. BROWN: Objection.  THE WITNESS: I have not seen that.  BY MS. PARFITT:  Q Okay. Do you have have you seen in your review of the literature that talcum powder	14 15 16 17 18 19 20 21 22	MS. BROWN: Objection to the form of the question.  THE WITNESS: I've read the study. I'd like to see whether that's in the introduction or the conclusion.  BY MS. PARFITT:  Q Okay. Let me show you Schildkraut.  A Because it's certainly not a conclusion of their study.

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	Page 414		Page 416
1	this?	1	MR. LOCKE: Objection.
2	MS. PARFITT: Sure. What number are we	2	BY MS. PARFITT:
3	up to?	3	Q Okay. Do you agree that there is
4	MS. BROWN: Oh, 29. I'm sorry. It's	4	reliable scientific literature in the
5	there. My bad.	5	peer-reviewed studies to support that it is
6	BY MS. PARFITT:	6	biologically plausible for talc products to
7	Q Do you have that in front of you,	7	migrate from the vagina to the ovaries following
8	Doctor?	8	perineal application?
9	A I do.	9	A I'm not aware of that study that has
10	Q Okay. And if I can direct your	10	shown that.
11	attention to pages 14, 16.	11	Q Have you seen the Penninkilampi study?
12	A Got you.	12	A Oh.
13	Q Do you have that?	13	MS. BROWN: Objection.
14	Do you see where the authors state:	14	THE WITNESS: Yes, I have.
15	"Lung inhalation of powder could be a biologically	15	BY MS. PARFITT:
16	plausible mechanism for the association between	16	Q Okay. Why don't we take a look at that.
17	nongenital powder use and increased EOC risk,	17	Let's pull it up, and we'll make it
18	particularly non-serous EOC."	18	Exhibit No. 30.
19	Do you see that?	19	(Diette Exhibit No. 30 was marked
20	A I do. It's the top of the first column	20	for identification.)
21	in the the rest of the incomplete paragraph.	21	BY MS. PARFITT:
22	Q Okay. Do you see that?	22	Q Right here. And if I may, Doctor, let
23	A I do.	23	me direct your attention to the discussion section
24	Q Okay. Do you agree with that?	24	of Penninkilampi on page 45.
25	MR. LOCKE: Objection.	25	A Page 45?
			Page 417
1	THE WITNESS: Only wall no Only in	1 1	
1	THE WITNESS: Only well, no. Only in	1	Q 45.
2	the broadest sense that lots of things could be,	2	Q 45. A Yep.
2 3	the broadest sense that lots of things could be, but not because there's any evidence to show that	2 3	<ul><li>Q 45.</li><li>A Yep.</li><li>Q Do you have that?</li></ul>
2 3 4	the broadest sense that lots of things could be, but not because there's any evidence to show that inhalation of powder is a way to get to the	2 3 4	<ul><li>Q 45.</li><li>A Yep.</li><li>Q Do you have that?</li><li>A I'm there, yep.</li></ul>
2 3 4 5	the broadest sense that lots of things could be, but not because there's any evidence to show that inhalation of powder is a way to get to the ovaries.	2 3 4 5	<ul><li>Q 45.</li><li>A Yep.</li><li>Q Do you have that?</li><li>A I'm there, yep.</li><li>Q Okay. It says: "The present</li></ul>
2 3 4 5 6	the broadest sense that lots of things could be, but not because there's any evidence to show that inhalation of powder is a way to get to the ovaries. BY MS. PARFITT:	2 3 4 5 6	Q 45. A Yep. Q Do you have that? A I'm there, yep. Q Okay. It says: "The present meta-analysis" and it is meta-analysis,
2 3 4 5 6 7	the broadest sense that lots of things could be, but not because there's any evidence to show that inhalation of powder is a way to get to the ovaries.  BY MS. PARFITT:  Q All right. So you dispute that	2 3 4 5 6 7	Q 45. A Yep. Q Do you have that? A I'm there, yep. Q Okay. It says: "The present meta-analysis" and it is meta-analysis, correct?
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	Page 418		Page 420
1	THE WITNESS: So so I agree with a	1	inflammatory hypothesis, as repeated exposure
2	lot of this, right. So I agree that the mechanism	2	would induce a longer period of chronic
3	is uncertain. Right. I agree that it has been	3	inflammation, and therefore should increase the
4	previously proposed 20 years ago by the citation	4	predisposition to the development of ovarian
5	that they have that that may ascend from the	5	cancer."
6	vagina, and instigate a chronic inflammation	6	Did I read that correctly?
7	response.	7	A You did.
8	They don't cite anything more modern	8	Q All right. Do you agree with that
9	than that one from 20 years ago, though. And	9	statement, that chronic inflammation as a
10	where it talks about it may be mutagenic and	10	biologically plausible hypothesis could induce
11	promote carcinogenesis	11	carcinogenicity?
12	BY MS. PARFITT:	12	MR. LOCKE: Objection.
13	Q Correct.	13	MS. BROWN: Counsel, are you
14	A I don't I don't think that's well	14	intentionally not reading the rest of that
15	supported either.	15	paragraph?
16	Q Is migration of talc a biologically	16	MS. PARFITT: No, I I'm getting
17	plausible mechanism by which talc can reach the	17	there.
18	ovaries?	18	MS. BROWN: Okay.
19	MS. BROWN: Objection to the form.	19	MS. PARFITT: Yeah.
20	MR. LOCKE: Objection.	20	THE WITNESS: Well, I disagree with the
21	THE WITNESS: If it were true, it could	21	fact that the small difference between 3600, plus
22	be supportive of that. But I don't see any any	22	or minus, lifetime applications supports a an
23	evidence that it's true.	23	inflammatory theory, because that's got nothing
24	BY MS. PARFITT:	24	too do with inflammation. It's really just a a
25	Q Is biological plausibility essential for	25	total number of applications.
			Page 421
1		1	
1 2	causality?	1 2	BY MS. PARFITT:
2	causality?  A No, it's it's one important criterion	2	BY MS. PARFITT:  Q Perhaps I can simplify my answer. Do
2	causality?  A No, it's it's one important criterion to consider.	2 3	BY MS. PARFITT:  Q Perhaps I can simplify my answer. Do you have an opinion as to whether or not chronic
2 3 4	causality?  A No, it's it's one important criterion to consider.  Q Does biological plausibility mean it	2 3 4	BY MS. PARFITT:  Q Perhaps I can simplify my answer. Do you have an opinion as to whether or not chronic inflammation can be a biologically plausible
2 3 4 5	causality?  A No, it's it's one important criterion to consider.  Q Does biological plausibility mean it must be proved?	2 3 4 5	BY MS. PARFITT:  Q Perhaps I can simplify my answer. Do you have an opinion as to whether or not chronic inflammation can be a biologically plausible method for promoting carcinogenesis?
2 3 4 5 6	causality?  A No, it's it's one important criterion to consider.  Q Does biological plausibility mean it must be proved?  MS. BROWN: Objection.	2 3 4 5 6	BY MS. PARFITT:  Q Perhaps I can simplify my answer. Do you have an opinion as to whether or not chronic inflammation can be a biologically plausible method for promoting carcinogenesis?  MS. BROWN: Objection to the form.
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	Page 422		Page 424
1	cells, like these precursor cells, and and at	1	BY MS. PARFITT:
2	least, you know, from histologic specimens, not	2	Q T-A-H-E-R.
3	seeing evidence of inflammation. And I haven't	3	A Oh.
4	really seen much that that would confirm that	4	Q 2018.
5	there's a link between chronic inflammation.	5	A Sorry, I was saying Taher.
6	BY MS. PARFITT:	6	Q No, no problem.
7	Q What I'm asking you is, based upon your	7	A But I don't now how you
8	review, Dr. Diette, have you seen anything in the	8	Q You could be right on that. Probably
9	peer-reviewed literature that there are	9	are.
10	biologically plausible mechanisms of talc's	10	A I don't know.
11	carcinogenicity demonstrated by chronic	11	I did.
12	inflammation from migration of the talc to the	12	Q Do you see where Taher authors found
13	ovaries?	13	that there was biologically plausible evidence of
14	MS. BROWN: Objection. I don't	14	inflammation from talc exposure?
15	understand that question.	15	MS. BROWN: Objection. Counsel, can we
16	MR. LOCKE: Objection.	16	see the article if you want to ask him about it?
17	THE WITNESS: Would you	17	MR. LOCKE: Objection.
18	BY MS. PARFITT:	18	BY MS. PARFITT:
19	Q The question let me rephrase it.	19	Q You've read the article. Do you know
20	A Okay.	20	the answer to that?
21	Q Is there are there studies in the	21	MS. BROWN: But it's not a memory test.
22	peer-reviewed literature that support an	22	MS. PARFITT: No, it's not, but perhaps
23	association of inflammation and increased risk of	23	he can answer. I didn't ask you the question.
24	ovarian cancer?	24	BY MS. PARFITT:
25	MS. BROWN: Objection to the form, asked	25	Q Do you know the answer to that?
	Page 423		Page 425
			5-
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1 2	and answered. BY MS. PARFITT:	1 2	
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2	BY MS. PARFITT:	2	A Well, the paper wasn't about that, so I don't I don't remember whether there was sort
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2 3 4 5 6	BY MS. PARFITT:  Q Is there something in the literature?  MS. BROWN: Objection.  BY MS. PARFITT:  Q Not whether there is a lot or a little.  Is there anything in the peer-reviewed literature	2 3 4 5 6	A Well, the paper wasn't about that, so I don't I don't remember whether there was sort of a preamble thing, but they they weren't really analyzing that. They were doing a meta-analysis, you know, sort of combining the epi studies. So, I mean, I don't remember what their
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	Page 426		Page 428
1	Q Do you remember?	1	He doesn't have the article.
2	MS. BROWN: I would request the	2	MS. PARFITT: That's fine.
3	article.	3	MS. BROWN: And he's never read it.
4	MS. PARFITT: I can do that.	4	BY MS. PARFITT:
5	BY MS. PARFITT:	5	Q Look at the abstract, first sentence.
6	Q Do you know, Doctor?	6	It says: "Perineal talc use is associated with
7	A I don't remember what they said.	7	ovarian carcinoma in many case-control studies.
8	(Counsel conferring.)	8	Such talc may migrate to pelvic organs and
9	MS. PARFITT: Doctor, if we can take a	9	regional lymph nodes, with both clinical and legal
10	quick break here	10	significance."
11	THE WITNESS: Sure.	11	Did I read that correctly?
12	MS. PARFITT: right now, so maybe I	12	A Yes.
13	can	13	Q All right. Would it be I believe you
14	THE WITNESS: Yeah, it's a good time.	14	had some concerns about the Heller study that we
15	MS. PARFITT: shorten things.	15	talked about earlier because it involved some
16	THE VIDEOGRAPHER: The time is 4:59 p.m.	16	unexposed what you testified were unexposed
17	We're going off the record.	17	women.
18	(Recess.)	18	MS. BROWN: Objection to the form.
19	THE VIDEOGRAPHER: The time is 5:12 p.m.	19	THE WITNESS: Correct, women who
20	and we're back on the record.	20	reported not being perineal talc users.
21	MS. PARFITT: I apologize.	21	BY MS. PARFITT:
22	BY MS. PARFITT:	22	Q Right. Okay. You understand in this
23	Q Dr. Diette, and I apologize, I have only	23	study that what Drs. McDonald and Godleski were
24	one copy that isn't marked up, so we're going to	24	doing were looking at particles in exposed women.
25	have to put this and substitute it on the on	25	MS. BROWN: No, he doesn't understand
23	have to put this and substitute it on the	23	MS. BROWN. 146, he doesn't understand
	Page 427		Page 429
		1	
1	the ELMO, if I may. We've done pretty good with	1	that because he doesn't have the study and he
1 2	the ELMO, if I may. We've done pretty good with copies all day today.	1 2	that because he doesn't have the study and he hasn't read it. I object. It's not fair.
2	copies all day today.	2	hasn't read it. I object. It's not fair.
2 3	copies all day today. So here we go.	2 3	hasn't read it. I object. It's not fair.  THE WITNESS: I honestly have no idea
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108 (Pages 426 to 429)

	Page 430		Page 432
1	MS. BROWN: Of course.	1	You had testified earlier that you
2	BY MS. PARFITT:	2	disagree with Health Canada when they state that
3	Q If it's from the vaginal area to the	3	talc can migrate to the ovaries; is that correct?
4	ovaries and the lymph nodes, does that make a	4	MR. LOCKE: Objection.
5	difference whether	5	MS. BROWN: Objection. Misstates prior
6	MR. LOCKE: Objection.	6	testimony. I don't even think he said that.
7	MS. BROWN: Objection to the form, lacks	7	BY MS. PARFITT:
8	foundation, calls for speculation about a document	8	Q Well, let me ask you. In the Health
9	he told you he's never read.	9	Canada report, they discuss the fact that it is
10	MR. LOCKE: Does the witness have a	10	biologically plausible for talc to migrate to the
11	copy?	11	ovaries and then cause an inflammatory process.
12	MS. BROWN: No. That's the objection.	12	Do you agree or disagree with that?
13	MS. PARFITT: Tom, we didn't we only	13	MR. LOCKE: Objection.
14	have one copy of it.	14	MS. BROWN: Objection. Lacks
15	MR. LOCKE: I think you need to disclose	15	foundation. Do you want to show him where they
16	to the witness that three of these authors are	16	said that?
17	paid experts, et cetera	17	THE WITNESS: I don't remember their
18	MS. PARFITT: Tom, Tom, Tom, Tom.	18	statement about that.
19	MR. LOCKE: Come on.	19	BY MS. PARFITT:
20	MS. BROWN: No, but to be fair, you	20	Q You don't. Okay.
21	guys, if you want to ask him questions, he's got	21	How about this statement. Go down to
22	to look at it. I'm going to take it off the ELMO	22	I believe it's one, two, three the third
23	and give it to him if you're going to continue	23	paragraph. Do you see that? It starts with
24	asking him questions.	24	"While."
25	BY MS. PARFITT:	25	A No.
	Page 431		Page 433
1	Q I'm not going to ask him any more	1	Q No?
2	questions on it, Doctor.	2	A Oh, I'm on a different page.
3	A Okay. Thank you.	3	Q I'm sorry. Page 5. Page 5.
4	Q All right. Let me show you	4	A Okay.
5	MR. LOCKE: Come on. Give him if	5	Q Okay. "While there exists no direct
6	you're going to give him if you're going to ask	6	proof of talc and ovarian carcinogenesis, the
7	him about it	7	potential for particles to migrate from the
8	MR. TISI: You're not even on record.	8	perineum into the vagina to the peritoneal cavity
9	MS. PARFITT: Tom, it was just	9	is indisputable."
10	MS. BROWN: Hey, hey, hey, guys. It's	10	Do you see that?
11	the end of the day.	11	A I do.
12	MS. PARFITT: Okay. Let's don't	12	Q Okay. Do you agree with the FDA?
13	MS. BROWN: Let's get through this.	13	MS. BROWN: Objection to the form.
14	(Diette Exhibit No. 32 was marked	14	THE WITNESS: So there's no citation for
15	for identification.)	15	that. I don't know how they get I mean I don't
16	BY MS. PARFITT:	16	know why they make that statement, and I it
17	Q 32. Let me show you what's been marked	17	certainly doesn't seem to be indisputable, because
18	as Plaintiffs' Exhibit 32.	18	there several of the articles that we've looked
	I need a copy. There you go. Sorry.	19	at today and others say it's not clear what the
19			mechanism is or the biologic plausibility. So
19 20	A Thank you.	20	
19 20 21	<ul><li>A Thank you.</li><li>Q Okay. You previously testified that you</li></ul>	21	it's it's obviously disputable, at the very
19 20 21 22	A Thank you.  Q Okay. You previously testified that you take a look at it. You read this before, the	21 22	it's it's obviously disputable, at the very least, but there's no citation, so it's hard to
19 20 21 22 23	A Thank you. Q Okay. You previously testified that you take a look at it. You read this before, the FDA letter 2014?	21 22 23	it's it's obviously disputable, at the very least, but there's no citation, so it's hard to know how to how to process this.
19 20 21 22	A Thank you.  Q Okay. You previously testified that you take a look at it. You read this before, the	21 22	it's it's obviously disputable, at the very least, but there's no citation, so it's hard to

109 (Pages 430 to 433)

	Page 434		Page 436
1	regard to whether or not talc can migrate, do you	1	think my answer was along the lines of I haven't
2	dispute that?	2	seen a study that shows that that's true.
3	MS. BROWN: Objection. Misstates the	3	BY MS. PARFITT:
4	document.	4	Q We talked about Schildkraut. We talked
5	THE WITNESS: I don't I don't dispute	5	about Schildkraut, didn't we?
6	that they said it obviously, because it's right	6	A Yeah, they didn't show that either,
7	here, but there's just no citation for it, and	7	though.
8	there's no information that tells who in	8	Q When you say they didn't show it, have
9	particular thinks that.	9	they opined in medical or let me ask you this
10	BY MS. PARFITT:	10	question. I see the disconnect.
11	Q Well, the Food and Drug Administration	11	Is there evidence contained in
12	is our regulatory body here in the United States,	12	peer-reviewed scientific articles wherein it is
13	correct?	13	stated that talcum powder products can migrate to
14	A It is one.	14	the ovaries?
15	MR. LOCKE: Objection.	15	MS. BROWN: Objection.
16	BY MS. PARFITT:	16	MR. LOCKE: Objection.
17	Q All right. Would you agree that	17	MS. BROWN: Misstates everything we've
18	dissemination of information that is accurate and	18	looked at and his testimony.
19	truthful is is something that they would	19	THE WITNESS: I think there's been
20	probably take quite seriously? Would you agree?	20	opinions of different people in different articles
21	MS. BROWN: Objection.	21	that are both supportive and not supportive of
22	THE WITNESS: I I hope so.	22	that statement.
23	BY MS. PARFITT:	23	BY MS. PARFITT:
24	Q Right. And would you agree that the FDA	24	Q All right. So you've seen scientific
25	would not be disseminating information about the	25	writers who have said talc can migrate to the
	Page 435		Page 437
1	potential for particulates to migrate from the	1	ovaries, and you've seen scientific articles that
2	perineum, the vagina to the peritoneal cavity, and	2	say that's more questionable. Is that fair?
3	say it's indisputable if they didn't have some	3	MS. BROWN: Objection. Not fair.
4	evidence?	4	Misstates prior
5	MS. BROWN: Objection. Calls for	5	THE WITNESS: It's sort of fair, but I
6	speculation.	6	can't find anybody who's actually shown that it's
7	MR. LOCKE: Objection.	7	true. I mean, you know, people may write that,
8	THE WITNESS: I don't know why they	8	but I mean I haven't seen a study that's shown
9	wrote it. I just think it would be odd to find	9	, and the second
10	that the FDA knew this, and it's not out there	10	that you can actually apply talc to the perineum and then find it in the ovaries.
11	generally otherwise. I mean I don't I don't	11	BY MS. PARFITT:
12	know what they considered.	12	
	BY MS. PARFITT:		Q Okay. Let me show you what we'll have
13 14	Q When you say it's not out there	13 14	marked as exhibit oh, thank you.
		15	(Counsel conferring.)
15 16	generally, we talked today about several peer-reviewed articles that have in fact talked	16	BY MS. PARFITT:
17		17	Q It's the end of the day, and we are
	about talcum powder part particles migrating to the ovaries, have we not?		running out of copies, Doctor.
18		18 19	Let me show you (Digita Exhibit No. 23 was marked
1.0	MS. BROWN: Objection. We have not.		(Diette Exhibit No. 33 was marked
19	THE WITNESS, N. I I	20	for identification.)
20	THE WITNESS: No, I was going to say, I	1	MD DOCENT E 1.31.32 22
20 21	mean, you've said that a lot, but I mean but we	21	MR. ROSEN: Exhibit 33.
20 21 22	mean, you've said that a lot, but I mean but we haven't looked at a study that shows that. I mean	21 22	MS. PARFITT: Beg your pardon? 33?
20 21 22 23	mean, you've said that a lot, but I mean but we haven't looked at a study that shows that. I mean we've talked about whether whether or not talc	21 22 23	MS. PARFITT: Beg your pardon? 33? THE WITNESS: This one says 32 on it.
20 21 22	mean, you've said that a lot, but I mean but we haven't looked at a study that shows that. I mean	21 22	MS. PARFITT: Beg your pardon? 33?

Page 438		Page 440
Q So I'm going to share this with you,	1	Take a moment and take a look at that, to eyeball
and actually, if we could put it on the ELMO,	2	that.
and then I will give it to you so I can at least	3	MS. BROWN: Take as long as you need to
identify it for counsel.	4	inform your response
Is that fair?	5	MS. PARFITT: It's a one-page document.
A Yeah. We will see how it goes.	6	MR. LOCKE: No. This this is a
Q All right. Let me show you it is	7	document that he hasn't seen before.
marked September 30th, 2004, and I will represent	8	MS. PARFITT: That's correct.
-	9	MR. LOCKE: Why don't we go off the
and it's a Luzenac document.	10	record.
MS. BROWN: What? I'm going to object	11	MS. PARFITT: It's one page, Doctor.
	12	MS. BROWN: Right, and that's just fair.
	13	MS. MILLER: If you're going to ask him
	14	questions about what you just threw out there
	15	MS. BROWN: That's fine. That's fine,
		but you understand there's no foundation. He's
he's never seen it. He hasn't reviewed it. His	17	never relied it.
opinions are not based on it. If you want to ask	18	MS. PARFITT: Okay, guys
-		MS. BROWN: So if we want to ask
-		questions
		THE REPORTER: Excuse me.
		MS. PARFITT: I'm not having him
		whoa, whoa.
		(A discussion was held off the record.)
		BY MS. PARFITT:
Page 439		Page 441
that would have preceded any litigation.	1	Q Dr. Diette, I'm simply referring to the
And it states: "Bill, I came across	2	cover letter.
this paper this morning published in the April	3	A Oh.
	4	Q And that's all, just one page. Do you
• •	5	see that?
	6	A T 1
compelling evidence in support of the migration		A I do.
	7	A 1 do.  Q Okay. And that's what I just read into
hypothesis. Combine this evidence with the theory	7 8	
hypothesis. Combine this evidence with the theory that the talc deposition on the ovarian epithelium		Q Okay. And that's what I just read into the record. Do you see that?  A I do.
hypothesis. Combine this evidence with the theory that the talc deposition on the ovarian epithelium initiates epithelium inflammation, which leads to	8	Q Okay. And that's what I just read into the record. Do you see that?
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hypothesis. Combine this evidence with the theory that the talc deposition on the ovarian epithelium initiates epithelium inflammation, which leads to epithelium carcinogenesis, and you have a potential formula for NTP classifying talc as a	8 9 10 11 12	Q Okay. And that's what I just read into the record. Do you see that?  A I do.  Q Okay. And do you see back in 2004, there was information with regard and I have to see it, I can't be sorry. I can't memorize it
hypothesis. Combine this evidence with the theory that the talc deposition on the ovarian epithelium initiates epithelium inflammation, which leads to epithelium carcinogenesis, and you have a potential formula for NTP classifying talc as a causative agent in ovarian cancer."	8 9 10 11 12 13	Q Okay. And that's what I just read into the record. Do you see that?  A I do. Q Okay. And do you see back in 2004, there was information with regard and I have to see it, I can't be sorry. I can't memorize it either.
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hypothesis. Combine this evidence with the theory that the talc deposition on the ovarian epithelium initiates epithelium inflammation, which leads to epithelium carcinogenesis, and you have a potential formula for NTP classifying talc as a causative agent in ovarian cancer."  Now, did I read that correctly?  A Yes.  Q So let me because counsel wants you to hold it, let me have you take  MS. BROWN: Well, only if you're going to ask him questions about it.  MS. PARFITT: I am. I am. But I can't do both.	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q Okay. And that's what I just read into the record. Do you see that?  A I do. Q Okay. And do you see back in 2004, there was information with regard and I have to see it, I can't be sorry. I can't memorize it either.  So you see back in 2004, the company's being advised that there is indeed literature compelling evidence in support of a migration hypothesis  MS. BROWN: Object. BY MS. PARFITT: Q that was shared between the two companies.
_	Q So I'm going to share this with you, and actually, if we could put it on the ELMO, and then I will give it to you so I can at least identify it for counsel.  Is that fair?  A Yeah. We will see how it goes. Q All right. Let me show you it is marked September 30th, 2004, and I will represent that it is to Bill Ashton from Richard Zazenski, and it's a Luzenac document.  MS. BROWN: What? I'm going to object on form and foundation. BY MS. PARFITT: Q Okay. Can you see that, Doctor? I don't want to strain your eyes too much.  MS. BROWN: No, we need to give him he's never seen it. He hasn't reviewed it. His opinions are not based on it. If you want to ask him questions about it, he needs to hold it and look at it. BY MS. PARFITT: Q I'm going to give it to you. I'm going to let you hold it in one moment.  Dr. Diette, this is a document I will represent that's dated September 30, 2004, and	Q So I'm going to share this with you, and actually, if we could put it on the ELMO, and then I will give it to you so I can at least identify it for counsel.  Is that fair?  A Yeah. We will see how it goes. Q All right. Let me show you it is marked September 30th, 2004, and I will represent that it is to Bill Ashton from Richard Zazenski, and it's a Luzenac document.  MS. BROWN: What? I'm going to object on form and foundation.  BY MS. PARFITT: Q Okay. Can you see that, Doctor? I don't want to strain your eyes too much.  MS. BROWN: No, we need to give him he's never seen it. He hasn't reviewed it. His opinions are not based on it. If you want to ask him questions about it, he needs to hold it and look at it.  BY MS. PARFITT: Q I'm going to give it to you. I'm going to let you hold it in one moment. Dr. Diette, this is a document I will represent that's dated September 30, 2004, and  Page 439  that would have preceded any litigation. And it states: "Bill, I came across this paper this morning published in the April 2004 journal Human Reproduction, an official journal of the European Society for Human

Page 444		Page 442	
his an e-mail or a fax? It	1 it that th	MS. BROWN: Objection to the speech,	1
m Ness's paper or Ness's paper	2 has someth	lacks foundation. I also believe that's an Imerys	2
m this	3 has someth	document.	3
Γ:	4 BY MS. P.	THE WITNESS: So a few things, right.	4
e something from Ness's paper,	5 Q Th	So one is I I've never seen that, so I don't	5
	6 correct.	even know what it is. I don't know who those	6
VN: Well, objection.	7 MS.	people are. That I don't know what their	7
NESS: But this is		qualifications are to consider something to be	8
VN: Don't don't speculate.	9 MS.	compelling evidence or if that's the word that was	9
	10 No one wa	used.	10
ITT: So we won't talk about		BY MS. PARFITT:	11
VN: Just wait for a question,	12 MS.	Q Mm-hmm.	12
	13 and we'll d	A I have not seen the article that's	13
Γ:	14 BY MS. P.	attached to the back of it.	14
you see on the first page of		Q Okay.	15
in the left-hand column		A But it's hard to say much about that.	16
n, where Dr. Ness states:		Q Yes.	17
tails cell damage, oxidative		Let me show you what we will have marked	18
ons of cytokines and		as Exhibit 34, and I'll represent to you it's an	19
of which may be mutagenic.		article by Roberta Ness, "Possible Role of Ovarian	20
at inflammation is a		Epithelial Inflammation."	21
al contributor to the development		(Diette Exhibit No. 34 was marked	22
suggests a directed approach to		for identification.)	23
suggests a directed approach to	24 future rese	BY MS. PARFITT:	24
that?		Q Have you seen this article before?	25
Page 445		Page 443	
Page 445	1 AId	Page 443 A I have.	1
Page 445 by you agree with that statement?			1 2
	2 Q O	A I have.	
o you agree with that statement?	2 Q Ol 3 MR	A I have. Q Okay. Do you see on page 2	2
o you agree with that statement? KE: Objection.	2 Q Ol 3 MR 4 MS	A I have.  Q Okay. Do you see on page 2 MS. PARFITT: Where is the other one?	2
o you agree with that statement? KE: Objection. WN: Objection to the form.	2 Q OF 3 MR 4 MS 5 TH	A I have.  Q Okay. Do you see on page 2 MS. PARFITT: Where is the other one? (Counsel conferring.)  BY MS. PARFITT:	2 3 4
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112 (Pages 442 to 445)

	Page 446		Page 448
1	one does not need to prove mechanism in order to	1	exposure can lead to the outcome that you're
2	find causality, correct?	2	interested in.
3	A I need to prove	3	BY MS. PARFITT:
4	MR. LOCKE: Objection.	4	Q Okay. Doctor, from your review of the
5	MS. BROWN: Objection to form.	5	peer-reviewed scientific literature, have you read
6	THE WITNESS: Sorry. Wow, sorry.	6	where study authors who have actually looked at
7	BY MS. PARFITT:	7	the issue of migration and other biological
8	Q We had a chorus.	8	plausible methods by which talc can get to the
9	A Yeah.	9	ovary?
10	No, you don't need to prove it, but	10	A I guess
11	it's	11	MS. BROWN: I object. I don't
12	Q You don't need to prove mechanism.	12	understand.
13	A You don't need to prove mechanism in	13	THE WITNESS: I mean I've looked at both
14	order to establish causation, but it's hard to get	14	the human and the animal studies that I could find
15	there for a low observed risk if you don't have	15	cited on the topic. And and you said that
16	biological plausibility.	16	talc talc can get to the ovary?
17	Q I'll take that back yes, I'm sorry.	17	BY MS. PARFITT:
18	I hope I didn't ask you this before, but	18	Q Mm-hmm.
19	is biological plausibility the same as proof of	19	A Because, you know, some are not talc,
20	mechanism?	20	right. There there are other kinds of
21	MR. LOCKE: Objection.	21	particles or substances. And so I've looked at
22	MS. BROWN: Objection to the form of the	22	both the animal and the human studies that I could
23	question.	23	find.
24	THE WITNESS: Proof of I don't know	24	Q And in those studies that you have
25	if I would use the so "proof of mechanism"	25	reviewed, have you seen where those authors who
	Page 447		T 440
	5		Page 449
1	sounds like a term in a way, but maybe not one	1	have studied the issue of biological plausibility
1 2	sounds like a term in a way, but maybe not one that's in my vocabulary. Like people talk about	1 2	
	sounds like a term in a way, but maybe not one that's in my vocabulary. Like people talk about proof of concept just as a study design, which		have studied the issue of biological plausibility
2	sounds like a term in a way, but maybe not one that's in my vocabulary. Like people talk about proof of concept just as a study design, which I don't know if that's the same thing, but I	2	have studied the issue of biological plausibility and mechanisms by which talc can get to the ovary
2	sounds like a term in a way, but maybe not one that's in my vocabulary. Like people talk about proof of concept just as a study design, which I don't know if that's the same thing, but I don't I don't I don't know "proof of	2	have studied the issue of biological plausibility and mechanisms by which talc can get to the ovary have concluded in their articles that that is indeed a pathway?  MS. BROWN: Objection.
2 3 4	sounds like a term in a way, but maybe not one that's in my vocabulary. Like people talk about proof of concept just as a study design, which I don't know if that's the same thing, but I	2 3 4	have studied the issue of biological plausibility and mechanisms by which talc can get to the ovary have concluded in their articles that that is indeed a pathway?
2 3 4 5	sounds like a term in a way, but maybe not one that's in my vocabulary. Like people talk about proof of concept just as a study design, which I don't know if that's the same thing, but I don't I don't I don't know "proof of	2 3 4 5	have studied the issue of biological plausibility and mechanisms by which tale can get to the ovary have concluded in their articles that that is indeed a pathway?  MS. BROWN: Objection.
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	Page 450		Page 452
1	took that as kind of mixed evidence that even in	1	MS. BROWN: Objection to the form.
2	animals, assuming that there is an appropriate	2	MR. LOCKE: Objection.
3	animal model, that they're not getting the same	3	THE WITNESS: So I I looked for
4	answer based on which animal it is.	4	all the things that we talked about I don't
5	BY MS. PARFITT:	5	know which ones we're talking about now in terms
6	Q Does exposure of a disease have to be	6	of the epidemiology studies.
7	proven in order to have a biologically plausible	7	BY MS. PARFITT:
8	mechanism?	8	Q Correct.
9	MS. BROWN: Objection to the form.	9	A So I've seen some that do and some that
10	MR. LOCKE: Objection.	10	don't propose that. Some I think are and I'm
11	THE WITNESS: So I don't know if I	11	paraphrasing but are sort of more along the
12	understand that. So are you saying that so say	12	lines of we just don't know or there's a lot more
13	it again. I'm sorry.	13	work needed, and and things of that sort.
14	BY MS. PARFITT:	14	Q Are there a lot on the lines of
15	Q Sure. It was probably a bad question.	15	migration of talc excuse me.
16	MS. BROWN: The realtime	16	Are there a lot of articles that you've
17	BY MS. PARFITT:	17	reviewed where they have authors have stated
18	Q Does one need does a scientist need	18	that talc can migrate to the ovaries?
19	to know the precise mechanism in order to	19	A I wouldn't say
20	determine whether or not it's biologically	20	MS. BROWN: Objection.
21	plausible for some toxin to cause some disease?	21	THE WITNESS: I wouldn't say a lot. And
22	MS. BROWN: Objection to the form.	22	I haven't seen anything as strong as that FDA
23	MR. LOCKE: Objection.	23	statement, you know, I mean, where where
24	THE WITNESS: So "precise" might be a	24	there's some, you know, certainty that is coupled
25	a term that matters, but but it can be a work	25	with that kind of a statement.
	5 451		5 452
_	Page 451		Page 453
1	in progress in the sense that you can have some	1	BY MS. PARFITT:
2	information or no information or lots of	2	Q But you've certainly seen where the
3	information. So there can be, you know, quite a	3	authors have opined and discussed biologically
4	spectrum of information you would have about the	4	plausible mechanism by mechanisms by which
5	plausibility.	5	talcum powder products can cause ovarian cancer.
6	BY MS. PARFITT:	6	MP I OCK E: Objection
7	Q I think what I'm asking is, does the	1	MR. LOCKE: Objection.
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8	mechanism of disease need to be proven in order to	8	MS. BROWN: Objection. Continues to misstate his testimony.
9	mechanism of disease need to be proven in order to find causality?	8 9	MS. BROWN: Objection. Continues to misstate his testimony.  THE WITNESS: What's what's different
9 10	mechanism of disease need to be proven in order to find causality?  MS. BROWN: Objection to the form.	8 9 10	MS. BROWN: Objection. Continues to misstate his testimony.  THE WITNESS: What's what's different about that than what I already answered?
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	Page 454		Page 456
1	seen it, you've seen it. If you dispute it, you	1	probably means one thing in the world in general.
2	dispute it.	2	I think if you're talking about Rothman, yeah,
3	A Well, it's it's none of those.	3	Rothman has written about that
4	But you just said reports. Does that	4	BY MS. PARFITT:
5	are we now talking about expert reports or are	5	Q Right.
6	Q No.	6	A and about it being simply a
7	A we still talking about	7	competition of sort of counting those that are
8	Q No, we're still talking	8	significant and those that are not.
9	A Okay. We're talking about like	9	I didn't see that. I think the way I
10	peer-reviewed publications?	10	described it I think was was the way I
11	Q That's right.	11	approached it, which said some of the information
12	A So I've seen a mixture, yeah. It's like	12	that's available is that some of the studies were
13	when you look at the epi literature, I mean the	13	statistically significant and some weren't. It's
14	the way I read it is like is, you know, an	14	informative, but it's not literally the same as
15	epidemiologist is supposed to be able to get up to	15	saying, I'm just going to count them up and stop
16	speed without becoming an expert in absolutely	16	there.
17	everything, right?	17	Q Because that would be improper, correct?
18	So I already told you I'm not a cancer	18	MS. BROWN: Objection.
19	biologist, but I do count on the authors to set	19	THE WITNESS: To only do that, yes.
20	the stage with the introduction and then interpret	20	BY MS. PARFITT:
21	their findings and the discussion and sort of take	21	Q Okay. All right. Let me ask a couple
22	us at least partway towards there.	22	of question questions.
23	So even the recent meta-analysis, if you	23	What is the minimal level of exposure to
24	look at Berge or Burge (phonetic), however you say	24	cigarette smoke in terms of cigarette smoke at
25	that, and Penninkilampi, you know, they talk about	25	home that's necessary to cause lung cancer?
	Page 455		Page 457
1	there there being uncertainty about the	1	MS. BROWN: Form.
2	mechanism. So I'm just saying even as recently as	1 1	THE WITNESS: I do not know.
3		2	
	the the very latest meta-analysis, there's	3	BY MS. PARFITT:
4	uncertainty expressed.	3 4	BY MS. PARFITT:  Q Okay. What is the minimal level of
	uncertainty expressed.  Q Do you see uncertainty being expressed	3 4 5	BY MS. PARFITT:  Q Okay. What is the minimal level of exposure to asbestos fibers inhaled that is
4 5 6	uncertainty expressed.  Q Do you see uncertainty being expressed by biologically plausible mechanisms?	3 4 5 6	BY MS. PARFITT:  Q Okay. What is the minimal level of exposure to asbestos fibers inhaled that is sufficient to cause ovarian cancer?
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### Case 3:16-md-02738-MAS-RLS Document 9737-8 Filed 05/07/19 Page 241 of 516 PageID: 38941

Gregory B. Diette, M.D.

Page 458 Page 460 1 1 Q Okay. You criticize the plaintiffs' 2 BY MS. PARFITT: 2 experts for what you called a muted examination of 3 Q Pleural. 3 the case-control studies that they reviewed. 4 A So the -- so the amount for pleural 4 Do you remember saying that in your 5 5 mesothelioma is -- and did you say fiber type or report? 6 6 you didn't mention fiber type? A I don't remember that word, but it's --7 7 Q I didn't. I just said fibers. it makes a lot of sense to me. 8 A Okay. So it would matter fiber type. 8 Q Okay. Where in your port -- report did 9 If it's chrysotile predominant, then above 200 to 9 you set forth all of the limitations and 10 400 fiber/cc years would be, you know, one 10 weaknesses of the cohort studies of talcum --11 estimate of the dose. If it's crocidolite, you 11 talcum powder products and asbestos -- and ovarian 12 12 know, you could divide that by 500. And if it's cancer? 13 13 amosite, by a hundred, and other amphiboles, you A Well, there's a bunch, right. So -know, somewhere in between those sort of ranges. 14 Q Well, where did you --14 15 And so, you know, I think for 15 A I'm telling you. -- provide us in your report that 16 amphiboles, above like the single digit fiber/cc 16 17 17 years, and for chrysotile, above the couple of information --A I'm telling you. like 200 to 400 fiber/cc years. 18 18 19 Q Is it true that the dose-response curve 19 MS. BROWN: Let him finish --20 for any genotoxic carcinogen intersects with zero? 20 THE WITNESS: I understand your 21 MS. BROWN: Objection to the form. 21 question. 22 THE WITNESS: Well, there's got to be a 22 MS. BROWN: -- and answer your question. 23 zero point if there's zero exposure, right? If 23 THE WITNESS: So one of the criticisms, 24 there's literally zero exposure, then there can't 24 which I think is pretty profound, which is the 25 25 be -- there can't be a signal from that zero. lack of a validated measure of talcum powder Page 459 Page 461 BY MS. PARFITT: exposure that could have someone estimate whether 1 1 2 2 Q What does the -- what does it mean if a or not somebody is exposed at all or whether or 3 dose-response curve intersects zero? 3 not there's a dose-response, and that applies to 4 4 all the studies, right. So that's uniformly MS. BROWN: Form. 5 BY MS. PARFITT: 5 applied to whether they're case-control studies 6 or -- or cohort studies. 6 Q What does that mean? 7 7 A It's not a term that's familiar. I BY MS. PARFITT: 8 mean, it's just -- I'm not sure -- if you've got 8 Q That would be the exposure 9 zero exposure, you can't have any outcome from 9 misclassification. 10 that. So I -- I assume that's what we're talking 10 MS. BROWN: Objection. THE WITNESS: No, no, no. So it would 11 about is just like a -- like a no exposure 11 estimate. 12 12 be -- you could misclassify it, but it -- but what If you're talking about like -- the 13 13 I'm talking about is, that in order to measure an 14 place I've seen people talk about it is like with 14 exposure, you need a valid measure of that 15 15 low doses of things and what happens, you know, exposure. That doesn't exist, or at least if it 16 below the concentration or the level at which 16 exists, it hasn't been employed in the -- in the 17 there's known effects, then what happens between 17 published literature. And that applies to the there and zero. But if it's literally zero -- if cohort studies and the case controls. 18 18 19 What I -- what I did was I tried to 19 there's literally zero exposure, it's got to be 20 20 actually not denigrate any of the study designs. zero outcome. 21 21 I thought that was appalling. You know, when you (Counsel conferring. 22 BY MS. PARFITT: 22 talk about where this came from, you know, to sort 23 Q Okay. You reviewed the cohort studies 23 of single out the cohort studies repeatedly by 24 in this case, correct? 24 the -- by the plaintiffs' expert and say, you 25 25 know, This is a terrible design, or this is A The three -- three cohort studies.

	Page 462		Page 464
1	terrible for whatever reason, it's extraordinary,	1	Q Okay. So you would agree with me there
2	and it's to me it's unprecedented for for	2	are studies in the peer-reviewed literature that
3	epidemiologists or other healthcare professionals	3	have demonstrated a dose-response between talcum
4	to sort of look at cohort studies and find that	4	powder products and ovarian cancer?
5	those are so awful, and that case-control studies	5	MS. BROWN: Objection
6	are suddenly so sturdy. It doesn't make any	6	MR. LOCKE: Objection.
7	sense.	7	MS. BROWN: to the form.
8	So so for me, like the task wasn't	8	MS. PARFITT: Let him answer, please.
9	really so much I wasn't trying to criticize	9	MS. BROWN: I get to object.
10	either form of the study, but just to point out	10	THE WITNESS: I think just a couple.
11	realistically that there are biases, that there	11	MS. PARFITT: Let's go off the record.
12	are confounding issues, and and things of	12	THE VIDEOGRAPHER: The time is 5:53 p.m.
13	that that sort.	13	We're going off the record.
14	BY MS. PARFITT:	14	(Recess.)
15	Q In your review of the literature for	15	THE VIDEOGRAPHER: The time is 5:58 p.m.
16	purposes of your opinions today, did you see	16	We're back on the record.
17	evidence from any of the studies that you read	17	MR. HEASLIP: Can we go off for one
18	that there was a dose-response associated between	18	moment? I apologize.
19	talcum powder products and ovarian cancer?	19	THE VIDEOGRAPHER: The time is 5:58 p.m.
20	A So in total, no. In a couple of	20	We're going back off the record.
21	studies, there are purported dose-response	21	(A discussion was held off the record.)
22	findings, right. So the latest Cramer study is an	22	THE VIDEOGRAPHER: The time is 5:59 p.m.
23	example. There may have been another, but there	23	We're back on the record.
24	are so many studies that show absolutely the	24	CROSS-EXAMINATION
25	opposite, meaning either flat dose-response,	25	BY MR. FINCH:
	P 462		
	Page 463		Page 465
1	upside down dose-response, zig-zaggy, haphazard	1	Page 465  Q Good afternoon, Dr. Diette. My name is
1 2	_	1 2	
	upside down dose-response, zig-zaggy, haphazard	1	Q Good afternoon, Dr. Diette. My name is
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	Page 466		Page 468
1	genotoxic carcinogen where there is a positive	1	about the sort of mechanical process of writing
2	dose, the dose-response curve always intersects	2	your report. Do you remember that?
3	with zero?	3	A I do.
4	MS. BROWN: Objection to form.	4	Q And to be clear, Doctor, did you write
5	THE WITNESS: That's not something that	5	every substantive word of the expert report that
6	I say. I mean I don't people may say that, but	6	we've marked as an exhibit in this case?
7	I I think when we're talking about like zero	7	A To the yes, everything substantive.
8	is zero, right. So zero exposure means zero risk.	8	Q Did MSA or Medical Science Affiliates
9	BY MR. FINCH:	9	make any substantive contributions to your expert
10	Q I'm not I'm not talking about zero.	10	report in this proceeding?
11	MS. BROWN: Wait, let him finish,	11	A No.
12	please.	12	Q You spoke a little bit earlier today
13	THE WITNESS: Well, I know. That's what	13	about some administrative support that you
14	I'm talking about when I when I hear that	14	received from MSA. Do you remember that?
15	question.	15	A I do.
16	BY MR. FINCH:	16	Q And tell us what you meant by
17	Q All right. So if someone were to	17	"administrative support."
18	testify when you're talking about a genotoxic	18	A So by "administrative support," I meant,
19	carcinogen where there is a positive exposure,	19	you know, gathering like collating materials
20	there the dose-response curve intersects with	20	for me, helping to to format the report, you
21	zero, meaning that there isn't it true that	21	know, putting you know, putting the reference
22	that means that there at any level of exposure,	22	citations in correctly. You know, creating the
23	there's an excess risk of cancer for a genotoxic	23	the list of reliance documents at the end. You
24	carcinogen?	24	know, things of that sort. And then and then
25	MS. BROWN: Objection to the form.	25	generating invoices.
	Page 467		5 460
	rage 407		Page 469
1	THE WITNESS: So I don't know. That may	1	I'm trying to think what else.
1 2		1 2	
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2 3 4	THE WITNESS: So I don't know. That may be part of some field that's not my field. But I but in the fields that I work in, I recognize that you need a certain amount of exposure in	2 3 4	I'm trying to think what else.  Whatever whatever I said earlier was the was the full list, I think.  Q You also mentioned earlier today
2 3 4 5	THE WITNESS: So I don't know. That may be part of some field that's not my field. But I but in the fields that I work in, I recognize that you need a certain amount of exposure in order to cause a disease, including cancer.	2 3 4 5	I'm trying to think what else.  Whatever whatever I said earlier was the was the full list, I think.  Q You also mentioned earlier today receiving some editorial support from the folks at
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Gregory B. Diette, M.D.

	Page 470		Page 472
1	MS. PARFITT: Objection.	1	INSTRUCTIONS TO WITNESS
2	THE WITNESS: They're they're all my	2	Please read your deposition over carefully and
3	opinions.	3	make any necessary corrections. You should state
4	BY MS. BROWN:	4	the reason in the appropriate space on the errata
5	Q If someone were to suggest that MSA	5	sheet for any corrections that are made.
6	wrote some of the substantive pieces of your	6	After doing so, please sign the errata sheet
7	report, would that be the truth?	7	and date it.
8	MS. PARFITT: Objection.	8	You are signing same subject to the changes
9	THE WITNESS: No.	9	you have noted on the errata sheet, which will be
10	MS. BROWN: Thanks very much for your	10	attached to your deposition. It is imperative
11	time, Dr. Diette. I have no further questions.	11	that you return the original errata sheet to the
12	MS. PARFITT: Anybody? No. Thank you.	12	deposing attorney within thirty (30) days of
13	Dr. Diette, thank you very much.	13	receipt of the deposition transcript by you. If
14	THE WITNESS: Thank you.	14	you fail to do so, the deposition transcript may
15	MS. PARFITT: I appreciate it.	15	be deemed to be accurate and may be used in court.
16	THE VIDEOGRAPHER: The time is 6:04	16	
17	p.m., April 9th, 2019. Going off the record,	17	
18	completing the videotaped deposition.	18	
19	(Whereupon, the deposition of	19	
20	GREGORY B. DIETTE, M.D. was	20	
21	concluded at 6:04 p.m.)	21	
22	concraded at o.o i p.m.)	22	
23		23	
24		24	
25		25	
	Page 471		Page 473
1	CERTIFICATE OF CERTIFIED SHORTHAND REPORTER	1	
2	The undersigned Certified Shorthand Reporter	2	ERRATA
3	does hereby certify:	3	
4	That the foregoing proceeding was taken before	4	
5		1 -	PAGE LINE CHANGE
5	me at the time and place therein set forth, at	5	PAGE LINE CHANGE
6	me at the time and place therein set forth, at which time the witness was duly sworn; That the		PAGE LINE CHANGE  REASON:
	which time the witness was duly sworn; That the testimony of the witness and all objections made	5	REASON:
6	which time the witness was duly sworn; That the	5 6	REASON:
6 7	which time the witness was duly sworn; That the testimony of the witness and all objections made	5 6 7	REASON:
6 7 8	which time the witness was duly sworn; That the testimony of the witness and all objections made at the time of the examination were recorded	5 6 7 8	REASON:
6 7 8 9	which time the witness was duly sworn; That the testimony of the witness and all objections made at the time of the examination were recorded stenographically by me and were thereafter	5 6 7 8 9	REASON:
6 7 8 9	which time the witness was duly sworn; That the testimony of the witness and all objections made at the time of the examination were recorded stenographically by me and were thereafter transcribed, said transcript being a true and	5 6 7 8 9	REASON:  REASON:
6 7 8 9 10	which time the witness was duly sworn; That the testimony of the witness and all objections made at the time of the examination were recorded stenographically by me and were thereafter transcribed, said transcript being a true and correct copy of my shorthand notes thereof; That	5 6 7 8 9 10	REASON:REASON:
6 7 8 9 10 11	which time the witness was duly sworn; That the testimony of the witness and all objections made at the time of the examination were recorded stenographically by me and were thereafter transcribed, said transcript being a true and correct copy of my shorthand notes thereof; That the dismantling of the original transcript will	5 6 7 8 9 10 11 12	REASON:  REASON:  REASON:  REASON:
6 7 8 9 10 11 12 13	which time the witness was duly sworn; That the testimony of the witness and all objections made at the time of the examination were recorded stenographically by me and were thereafter transcribed, said transcript being a true and correct copy of my shorthand notes thereof; That the dismantling of the original transcript will void the reporter's certificate.	5 6 7 8 9 10 11 12 13	REASON:  REASON:  REASON:  REASON:
6 7 8 9 10 11 12 13	which time the witness was duly sworn; That the testimony of the witness and all objections made at the time of the examination were recorded stenographically by me and were thereafter transcribed, said transcript being a true and correct copy of my shorthand notes thereof; That the dismantling of the original transcript will void the reporter's certificate.  In witness thereof, I have subscribed my name	5 6 7 8 9 10 11 12 13 14	REASON:  REASON:  REASON:  REASON:
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#### Case 3:16-md-02738-MAS-RLS Document 9737-8 Filed 05/07/19 Page 245 of 516 PageID: 38945 Gregory B. Diette, M.D.

	Page	474
1	ACKNOWLEDGMENT OF DEPONENT	
2	I,, do hereby	
3	certify that I have read the foregoing pages, and	
4	that the same is a correct transcription of the	
5	answers given by me to the questions therein	
6	propounded, except for the corrections or changes	
7	in form or substance, if any, noted in the	
8	attached Errata Sheet.	
9		
10		
11	GREGORY B. DIETTE, M.D. DATE	
12		
13		
14	Subscribed and sworn to	
15	before me this	
16	day of,20	
17	My commission expires:	
18		
19	Notary Public	
20	rotary I done	
21		
22		
23		
24		
25		

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	-	-		
<b>A</b>	accessory 75:25	administer	162:19 163:22	278:9 282:19
<b>a.m</b> 1:18 13:7	76:13	13:20	164:10 165:6	283:6 287:2
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76:7 123:16	4	<b>5:12</b> 426:19	<b>800</b> 306:22	
325:6	<b>4</b> 6:23 44:20	<b>5:30</b> 447:10	307:17,18	
<b>3.5</b> 389:6	45:2 243:6	<b>5:37</b> 447:13	312:1,6 313:23	
<b>3/15/19</b> 22:20	<b>4:10</b> 377:12	<b>5:53</b> 464:12	<b>82</b> 7:7 222:14	
<b>3/15/2019</b> 23:2,6	<b>4:59</b> 426:16	<b>5:58</b> 464:15,19	<b>85</b> 25:18 178:1	
<b>3:09</b> 338:13	<b>40</b> 45:21 46:2	<b>5:59</b> 464:22	178:10	
<b>3:10</b> 338:17	298:17 299:11	<b>50</b> 156:1,2	<b>850</b> 3:17	
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379:16 380:20	458:10,18	212:3 336:18	98:23,24	
416:18,19	<b>401</b> 4:11	<b>5129</b> 471:19	101:20	
438:25 472:12	<b>41</b> 85:8,19	<b>52</b> 7:5	<b>9:03</b> 19:10	
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236:16 237:17	309:10 310:14	86:14 123:1	<b>92</b> 285:21	
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<b>32</b> 11:20 349:8	<b>438</b> 284:16,17	<b>61</b> 289:20	<b>95</b> 7:13	
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<b>327</b> 9:22	<b>442</b> 12:6	34:4 42:15,22	99 385:13	
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# Exhibit 10

## Report of Jonathan Borak, MD, DABT February 25, 2019

#### I. <u>Introduction</u>

- 1. I am Clinical Professor of Epidemiology & Public Health and Clinical Professor of Medicine at Yale University, a faculty member of the Yale Occupational and Environmental Medicine Program, and Adjunct Associate Professor of Medicine at The Johns Hopkins University. I am also President of Jonathan Borak & Company, a consulting firm in New Haven, Connecticut.
- 2. I received my B.A. with honors from Amherst College in 1968 and my M.D. from New York University in 1972. I am Board Certified in Internal Medicine, Preventive Medicine (Occupational Medicine) and Toxicology (American Board of Toxicology). I am a Fellow of the American College of Physicians, the American College of Occupational and Environmental Medicine, the Royal College of Physicians of Canada, the Academy of Toxicological Sciences, and the American Industrial Hygiene Association.
- 3. Among my Yale activities, I have directed and taught two required graduate-level courses (Principles of Toxicology and Principles of Risk Assessment) for nearly twenty years. I also lecture in number of other graduate-level courses including occupational epidemiology, environmental exposure assessment, and environmental health. From 2002-2010 I was Director of the Yale University Interdisciplinary Risk Assessment Forum. I also participate in the supervision and training of Fellows and other resident physicians in the Yale Occupational and Environmental Medicine Program.
- 4. I served as an elected Director of the American College of Occupational and Environmental Medicine (ACOEM) from 1999-2002 and as Chair of the ACOEM Council on Scientific Affairs from 1999-2012. I was a founding member of US EPA's National Advisory Committee to Develop Acute Exposure Guideline Levels for Hazardous Substances, a member of the National Research Council Committee on Toxicologic Assessment of Low-Level Exposures to Chemical Warfare Agents, a member of a National Institute of Environmental Health Sciences review panel on Partnerships for Environmental Public Health, and a member of an External Review Panel for the National Institute for Occupational Safety and Health. I was President of the Occupational and Environmental Medicine Association of Connecticut, President of the Connecticut College of Emergency Physicians, and Chairman of the Connecticut State Medical Society Committees on Preventive Medicine and on Emergency Medical Services.

<sup>&</sup>lt;sup>1</sup> Along with the principles of toxicology (e.g., dose-response; toxicokinetics) and risk assessment (e.g., bases for risk extrapolation), my teaching includes the following topics of possible relevance to the present matter: design, development and interpretation of epidemiological studies (e.g., cohort vs. case-control; prospective vs. retrospective); causal inference (e.g., Hill's Postulates, Koch's Postulates); and, biological models of cancer.

- 5. I am a member of the Editorial Boards of Journal of Occupational and Environmental Medicine, Journal of Occupational and Environmental Hygiene, and Occupational Medicine. I served as Associate Editor of OEM Report, as a member of the Editorial Board of the American Industrial Hygiene Association Journal, and currently serve as a peer reviewer for numerous medical and scientific publications.
- 6. I have written numerous books, monographs, book chapters, peer-reviewed articles and other publications on a range of topics in occupational medicine, toxicology, epidemiology and industrial hygiene. For example, I was Associate Editor of *A Practical Approach to Occupational and Environmental Medicine* (Lippincott, 2003), Editor and Course Director of *Core Curriculum in Environmental Medicine* (ACOEM, 1994), principal author of *Medical Management Guidelines for Acute Chemical Exposures* (ATSDR, 1994), and senior author of a textbook on toxic emergencies (*Hazardous Materials Exposure: Emergency Response and Patient Care*, Prentice-Hall, 1991).
- 7. I have received numerous awards from ACOEM including: the President's Award in 1994, 2000 and 2008; the Adolph G. Kammer Merit in Authorship Award in 2003; the Robert A. Kehoe Award of Merit in 2004; and the George H. Gerchman Memorial Prize in 2005. I also received the Harriet Hardy Award from the New England College of Occupational and Environmental Medicine in 2012.

#### II. Scope of Engagement

- **8.** In the present matter, I was asked by Tom Locke of Seyfarth Shaw to review published and peer-reviewed scientific literature relevant to the alleged association between perineal use of talc-containing powders and ovarian cancer. I was specifically asked to analyze the above materials from a chronological perspective in order to evaluate <u>whether</u>, <u>when</u> and by <u>whom</u> it had been determined that perineal use of talc-containing powder causes ovarian <u>cancer</u>.
- **9.** I also considered expert reports produced in both the federal multi-district litigation (MDL") and prior talc-ovarian cancer litigation, expert depositions, and expert trial testimony concerning the alleged relationship between perineal use of talc-containing powders and ovarian cancer. To better understand those opinions, I reviewed the experts' peer-reviewed publications along with their opinions and testimony to determine when they first reached their conclusions. I also reviewed the broader published literature and the published opinions of well-regarded and authoritative agencies and institutions in order to determine whether there was general support for the experts' opinions.
- **10.** The expert materials that I reviewed are listed in Attachment 1. Attachment 2, "Materials Considered", is a list of books, reports, and articles in my library that I have reviewed and that are relevant to my understanding of the issues raised in this litigation. Overall, I read numerous published studies concerning talc, asbestos and ovarian cancer, including many of the references authored by the experts listed in Attachment 1 and those cited in their expert reports and testimony.

#### III. Background

- 11. The first epidemiological study suggesting a link between perineal talc exposure and ovarian cancer was a 1982 case-control study by Dr. Daniel Cramer, one of the experts identified by plaintiffs in prior talc litigation (1). I reviewed the opinions of other experts who testified on behalf of plaintiffs in prior talc litigation. Along with Dr. Cramer's opinions, I include in my report an analysis Drs. Colditz and Ness's opinions because all three wrote frequently regarding the possible link between perineal talc exposure and ovarian cancer and because their contributions were emphasized by plaintiffs, who described Dr. Cramer as "the expert" with a "massive amount of expertise", described Dr. Colditz as "the number one scientific expert in the world", and referred to Dr. Ness' "body of work investigating talcum powder and ovarian cancer" [Plaintiffs Response to Motion to Exclude, 07/18/2016; Kemp Hearing Opening Statement 08/08/2016].
- 12. Between 1982 and 2000 another 16 case-control studies were published, and at least eight additional case-control studies were published after 2000. There have also been at least four reports of cohort studies, at least eight meta-analysis and pooled analyses, as well as numerous systematic reviews all addressing the possible link between perineal talc use and ovarian cancer.<sup>2</sup> In other words, the possible link between perineal talc use and ovarian cancer has been the subject of repeated study, reanalysis, and review.

Despite such extensive efforts, science has not established that perineal talc use causes ovarian cancer. For example, a 2014 editorial in the prominent *Journal of the National Cancer Institute* concluded: "Overall, the evidence regarding carcinogenicity of talc use remains inconclusive" (2). Very recently, in a statement dated 12/21/18, the National Cancer Institute (NCI) concluded: "The weight of evidence does not support an association between perineal talc exposure and an increased risk of ovarian cancer" (3).

<u>Cohort studies</u> evaluate the development of disease over time in a defined population of subjects (the "cohort") who were disease-free at the start of the study. These studies aim to determine the risk factors that predict future disease development. Risk status is determined at the start of the study (i.e., before disease development) and may be periodically updated during the study. In most cases, both disease and risk status are determined prospectively, but "retrospective cohort studies" can be constructed.

<u>Meta-analyses</u> combine the results of independent, similar (but non-identical) studies to calculate quantitative summaries of the studies. One component of meta-analyses is the determination of which studies are appropriate to combine. A second is the arithmetic combination of the numerical information from those studies. Published guidelines provide recommendations for determining the appropriateness of studies and for the calculation of meta-analytical results. Meta-analyses that reanalyze the underlying studies and combine the raw data from those studies are referred to as "pooled analyses".

<sup>&</sup>lt;sup>2</sup> Epidemiological studies, regardless of their design, are observational, not experimental. Among the most common study designs are case-control and cohort studies.

<sup>&</sup>lt;u>Case-control studies</u> compare the experience (e.g., risk factors) of persons with a disease and a suitable control group without the disease. They are often thought of as "retrospective" because disease status is determined retrospectively (i.e., subjects enter the study after diagnosis). Risk status is usually determined retrospectively, but some case-control studies ("nested case-control study") are constructed using retrospective disease status, but prospectively determined risk status based on data from a previously initiated, prospective cohort study that included the case-control study subjects.

- 13. Nevertheless, many of plaintiffs' MDL experts have opined that perineal use of talc-containing powder can cause ovarian cancer. Their opinions are contained in expert reports and deposition testimony. To better understand those opinions, I reviewed their peer-reviewed publications along with their opinions and testimony to determine when they first reached their conclusions. I also reviewed the broader published literature and the published opinions of well-regarded institutions in order to determine whether there was general support for plaintiffs' MDL experts' opinions.
- **14**. To facilitate my discussion, I compiled a non-exclusive "Chronology of Opinions" (Attachment 3) which presents statements quoted from the scientific literature, the opinions of well-regarded institutions, plaintiffs' MDL experts, and three of plaintiffs' former experts. I will refer to those Attachment 3 statements in the discussion below.

#### IV. <u>Discussion</u>

#### Prior to 2000:

- **15**. Prior to 2000, the possibility that perineal talc use caused ovarian cancer was regarded, at best, as "equivocal" (4) and "viewed with skepticism" (5). Contributing to that skepticism were the "weak" association between talc and cancer, "poor dose response relationships", potential bias and confounding, and an insufficiency of empirical data (4-7). The proposed relationship was further obscured by a 1996 study of women undergoing "incidental oophorectory", some reporting "frequent" applications of perineal talc and others reporting none. All of the women had talc in their ovaries: "Talc particle counts were completely unrelated to reported levels of perineal talc exposure" (8).
- **16**. The IARC asbestos monographs in 1973 (9) and 1977 (10) did not mention ovarian cancer in any context. In 1987, IARC noted that "some excess of ovary cancer has been reported in two studies, but not in another" (11); there was no further discussion of ovarian cancer.
- 17. The opinions of the plaintiffs' prior experts reflect that skepticism. For example, in deposition testimony, Dr. Cramer agreed that, in 2000, he viewed the association between talc and ovarian cancer as "still a hypothesis" [deposition re: Berg, p.22]. Likewise, in his deposition, Dr. Colditz testified that, in 2000, he was not of the opinion that "talc use can cause ovarian cancer" [deposition re: Hogans, p. 298]. Finally, as discussed below, Dr. Ness testified that evidence of the association was "insufficient" until at least 2004 [deposition re: Blaes, p. 255-6). I have found no published evidence that any of the plaintiff's MDL experts expressed opinions about talc and ovarian cancer prior to 2000.

**18**. In sum, Drs. Colditz, Cramer and Ness agreed that, prior to 2000, there was insufficient evidence that perineal talc use caused ovarian cancer. None of plaintiffs' MDL experts disagree with that view.<sup>3</sup>

#### 2000-2008:

**19**. In 2006, an IARC communication was published from a Monograph Working Group that evaluated the carcinogenicity of talc (12). The IARC working group found that there was only "limited evidence for the carcinogenicity of perineal use of talcbased body powder" and classified this use as: "possibly carcinogenic to humans (i.e., Group 2B)". Dr. Siemiatycki was the Chair of that meeting.

In 2008, a meta-analysis was published by three members of that IARC working group, including Dr. Siemiatycki. Their analysis included 20 case-control studies, all but one published by 2004, and it identified eight studies deemed by the IARC working group to be "most informative". The meta-analysis concluded:

"The current body of experimental and epidemiological evidence is insufficient to establish a causal association between perineal use of talc and ovarian cancer risk" (13).

That year, Dr. Cramer co-authored a study that combined case-control and cohort data. The report described the association between perineal talc use and ovarian cancer as:

"controversial due to the lack of a clear dose-response with increasing frequency or duration of talc use, the possibility of confounding or other biases, and the uncertain biological mechanism." (14)

20. Drs. Ness, Colditz and Cramer were asked about the opinions that they held around that time. Dr. Ness testified that, based on the studies then available, there was insufficient evidence in 2004 that perineal talc use caused ovarian cancer (deposition re: Blaes, p. 255-6). Dr. Colditz testified that because of persistent inconsistency among the published studies, in 2004 it was unclear whether talc altered cancer risk (deposition re: Hogans, p. 436). Dr. Cramer, asked about his opinions prior to 2007, testified that "several things have happened since then ... we've built up a case ... a stronger biological argument ... These have all developed since 2007 in my mind" [deposition re: Blaes, p. 150-1].

Dr. Siemiatycki, in a 2016 expert report, "concurred with that evaluation" (i.e., the conclusion of the 2008 meta-analysis that the evidence was then "insufficient" to establish causation).

<sup>&</sup>lt;sup>3</sup> With the exception of Dr. Siemiatycki, before 2018, none of plaintiffs' MDL experts published on the topic of perineal talc use and ovarian cancer. Below, I discuss Dr. Siemiatycki's prior publications on that topic. In my chronology, I note when plaintiffs' MDL experts published on that topic.

**21**. Thus Drs. Colditz and Ness agreed that prior to 2004 there was insufficient evidence that perineal talc use caused ovarian cancer, Dr. Siemiatycki testified that that he held that opinion based on "the evidence" up to "2005, 2006", and Dr. Cramer agreed that there was insufficient evidence prior to 2007.

#### 2009-2012:

- 22. In 2010, IARC published *Monograph 93*, which included its complete assessment of talc. As described above in its preliminary communication, IARC found only "*limited evidence* in humans" and concluded: "Perineal use of talc-based body powder is *possibly carcinogenic to humans* (Group 2B)" (15). A 2011 case-control study concluded that "no stronger adjective than "possible" appears warranted at this time" (16). That same year, an abstract co-authored by Dr. Cramer and published in *Proceedings of the American Association for Cancer Research* opined that "The etiology of ovarian cancer is poorly understood but there is clearly a heritable component." (17).
- **23**. In 2012, IARC published Monograph 100C which included an updated assessment of asbestos (18). It noted that "a causal association between exposure to asbestos and cancer of the ovary was clearly established" and "asbestos causes ... cancer of the ... ovary".
- **24**. The 2011 version of the *Your Disease Risk* website (copyrighted 2013; on-line 2015) -- which Dr. Colditz directs at Siteman Cancer Center -- listed nine risk factors for ovarian cancer; it did <u>not</u> list talc (19). In a deposition [re: Hogans], when asked about the level of evidence that was necessary before a risk would be included on that website, Dr. Colditz testified:

"On Your Disease Risk website, the consensus opinion was that definite and probable causes should be included" [deposition re: Hogans, p. 67].

- Dr. Colditz also testified that the website was reviewed and updated every three years, that the list of cancer risk factors considered in the review included talc, and that the then most recent review was completed in 2011 [deposition re: Hogans, p. 57-8]. It is notable that the website list of Contributors included Dr. Colditz, Dr. Cramer, and Dr. Susan Hankinson, a Member of the IARC Working Group on Talc (15), a co-author of the 2008 meta-analysis discussed above (13), and an author of at least three other reports on talc and ovarian cancer (13;14;20;21).
- **25**. Thus, in 2011 the Your Disease Risk review committee (including Drs. Colditz, Cramer and Hankinson) determined that the evidence linking perineal talc use and ovarian cancer was neither "definite" nor "probable". That same year, Dr. Cramer believed the etiology of ovarian cancer was "poorly understood".

#### 2013-Current.

- **26**. In 2013, "Talc-based body powder (perineal use of)" was listed on the California Safe Cosmetics Program Reportable Ingredients List as a carcinogen. The listing was based on the conclusion of the IARC 2010 Monograph. The California Health and Safety Code requires listing of substances categorized by IARC as Group 1, Group 2A, or Group 2B. As discussed above, IARC found that there was only "*limited evidence* in humans" and concluded that "Perineal use of talc-based body powder is *possibly carcinogenic to humans* (Group 2B)" (15).
- **27.** In 2013, a large pooled analysis of 8 case-control studies (co-authored by Dr. Ness) found a "small-to-moderate" increased risk of ovarian cancer in perineal powder users, but also reported that among powder users there was "no significant trend in risk with increasing number of lifetime applications" (22).
- **28**. In a 2013 deposition, Dr. Cramer testified that he was "not aware" of "any peerreviewed paper" that made the statement that talc causes ovarian cancer [deposition re: Berg, p. 211].
- **29**. In 2014, a large cohort study of postmenopausal women concluded that perineal powder use did not influence risk of ovarian cancer:

"Ever use of perineal powder was not associated with risk of ovarian cancer compared with never use. Individually, ever use of powder on the genitals, sanitary napkins, or diaphragms was not associated with risk of ovarian cancer compared with never use, nor were there associations with increasing durations of use ... Based on our results, perineal powder use does not appear to influence ovarian cancer risk." (21)

An editorial published in the same issue as that cohort study report opined that: "Overall, the evidence regarding carcinogenicity of talc use remains inconclusive" (2).

- **30**. In 2015, Dr. Ness presented a poster at a meeting of the International Gynecologic Cancer Society which concluded that "Hill's tenets suggest that talc use causes ovarian cancer" (23). Subsequently, however, she has not published the contents of that poster or its conclusion in the peer-reviewed literature.
- **31.** In 2015, Dr. Cramer testified that "probably" none of his published papers said that talc caused ovarian cancer [deposition re: Blaes, p. 112]. He also testified that he could not name anyone who had said in a peer-reviewed article that talc caused endometroid ovarian cancer: "nobody said that" [deposition re: Ristensund, p.93]. And, when asked about his opinion that talc carcinogenicity results from altered immune surveillance ("diminution of anti-MUC1 antibodies" (24)), he testified that it was only a hypothesis [deposition re: Blaes, p. 108].
- **32.** In 2016, Dr. Cramer published an updated case-control study that asserted that its findings "present a good case", but had not been confirmed:

"We believe the observations made here present a good case for talc carcinogenicity and that re-analyses of existing data from already published studies might provide confirmatory evidence" (25).

**33**. In 2016, Dr. Siemiatycki testified that he had reviewed evidence of an association between talc and ovarian cancer in 2005-2006 and in 2015-2016. Following the earlier review, he concluded that the evidence was insufficient to classify talc as carcinogenic to humans and that it should be classified as only possibly carcinogenic to humans [deposition re: Oules, p. 111].

He also testified that if he had been asked about his opinion of that association at any time between those two reviews (i.e., between 2006 and 2016), "my spontaneous opinion would have been the opinion I had the last time I looked at the data, which was 2005, 2006" [deposition re: Oules, p. 181].

**34**. In 2016, Dr. PM Webb, founding member of the Australian Ovarian Cancer Study (a member of the Ovarian Cancer Association Consortium and a component of the large 2013 pooled analysis discussed above (22)) reviewed the epidemiology of ovarian epithelial ovarian cancer (26). She concluded that the association between talc and ovarian cancer was still "uncertain":

"It is still uncertain whether the association is causal because there is little evidence that risk increases with increasing frequency and/or duration of talc use and the association does not appear to be weaker among women who have undergone procedures such as tubal ligation that would prevent talc from reaching the ovaries." (26)

**35**. In 2016, Dr. Steven Narod, Professor of Public Health Sciences, Medicine, and Surgery at the University of Toronto, co-discoverer of the BRAC1 and BRAC2 genes, and the most cited researcher in the world in the field of breast cancer <sup>4</sup> published a Clinical Commentary on talc and ovarian cancer. He opined that because the magnitude of the estimated risk ratio for ever use of talc and ovarian cancer was so small, it was not "helpful" to rely on such risk ratios for ascribing causation:

"it would be challenging to convince the epidemiology community that there is a danger ... Simply put, a risk ratio of this size falls outside the resolution of most epidemiologic studies."

"The estimate of a risk ratio of 1.2 5 ... is not helpful in determining if a specific case is, or is not, the result of talc exposure." (27)

<sup>4</sup> http://www.dlsph.utoronto.ca/faculty-profile/narod-steven/

<sup>&</sup>lt;sup>5</sup> "This estimate is the one generated from the large pooling study and is the level of risk that is under discussion in the media." (27)

On the other hand, he noted that it was not possible to conclude that there was no evidence of an association.

- **36**. Also in 2016, the Danish Ministry of Environment and Food published a criterion document *Talcum*, *cosmetic grade (non-fibrous): Evaluation of health hazards and proposal of a health-based quality criterion for ambient air* (28). It did not consider ovarian cancer.
- **37**. In 2017, Berge and colleagues published an updated meta-analysis on perineal use of talc and ovarian cancer. Their analytical findings were generally similar to those of earlier meta-analyses. They concluded that their findings were not sufficient to interpret the association between talc and ovarian cancer as "causal":

"Several aspects of our results, including the heterogeneity of results between case-control and cohort studies, and the lack of a dose-response with duration and frequency of use, however, do not support a causal interpretation of the association." (29)

That meta-analysis was published on the website of *European Journal of Cancer Prevention*. As published, it indicated a copyright and publication date of 2017 and "Received 31 August 2016 Accepted 20 December 2016".

**38**. In 2018, Berge and colleagues published a different version of their 2017 metaanalysis. The conclusions were similar <u>except</u> that a significant change was made to the methodology and findings related to dose-response:

"Several aspects of our results, including the heterogeneity of results between case—control and cohort studies, however, do not support a causal interpretation of the association." (30)

That meta-analysis was also published in *European Journal of Cancer Prevention*. It was identical to the earlier version (e.g., same title, same authors, same text) <u>except</u> for the changes related to dose-response and changes of the copyright and publication date to 2018; it continued to indicate "Received 31 August 2016 Accepted 20 December 2016".

I have been unable to find information explaining the withdrawal, subsequent change and "re-publication" of this article. This is surprising, especially considering the potential impact of the change. It is also notable that both versions have identical DOI identification numbers, and that the prior version is no longer available on the internet. I do not know whether this indicates a conscious effort to conceal the changes, but it is my experience that journals normally publish a correction notice or otherwise provide an explanation for such a change in a published report.<sup>6</sup>

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<sup>&</sup>lt;sup>6</sup> Dr. Siemiatycki testified that he had read, but did not understand the changes in the statistical methods underlying the revised dose-response conclusion of Berge 2018:

- **39**. In 2018, Penninkilampi and Eslick published results of another updated metaanalysis (31). They began with a historical perspective:
  - "... while perineal talc use has not been shown to be safe, in a similar regard, a certain causal link between talc use and ovarian cancer has not yet been established."

They noted the lack of a mechanistic explanation for the association between risk of ovarian cancer and talc:

"The mechanism by which perineal talc use may increase the risk of ovarian cancer is uncertain."

And they concluded that their analytic findings were "suggestive of a causal association", but that further studies were necessary to establish a causal relationship.

**40.** In a 2018 textbook chapter referenced in his expert report, Dr. Saed wrote that the cause of ovarian cancer was "under debate" and that its association with talc was only suggestive: <sup>7</sup>

"Ovarian cancer ... underlying pathophysiology is not clearly established ... The origin and causes of ovarian tumors remains [sic] under debate ..."

"Although there is strong epidemiological evidence to suggest an association between talc use and ovarian cancer, the direct link and precise mechanisms have yet to be elucidated." (33)

**41**. In an unpublished manuscript,<sup>8</sup> Dr. Saed and colleagues described the results of an *in vivo* study that evaluated the responses of cultured cells exposed to talc dissolved in DMSO. The authors state:

"Genital use of talcum powder and its associated risk of ovarian cancer is an important controversial topic ... This is the first study to clearly demonstrate that talc induces inflammation and alters the redox balance favoring a pro-oxidant state in normal and EOC cells."

<sup>&</sup>quot;... they've now used a different statistical procedure for evaluating dose-response by duration and frequency, which is embodied in their Table 3, which I don't fully understand." [deposition, p. 198]

<sup>&</sup>lt;sup>7</sup> A similar view was expressed by Dr. Saed in a 2017 article: "... the exact origin(s) and pathogenesis of ovarian cancer still remains [sic] under debate" (32), "talc" was not mentioned in that article.

<sup>&</sup>lt;sup>8</sup> A copy of the following manuscript was produced in this litigation and provided to me: N Fletcher et al. "Molecular basis supporting the association of talcum powder use with increased risk of ovarian cancer." As of 2/22/19, it has not been indexed by the National Library of Medicine (NLM), it has not been published by any NLM-recognized journal, and it is apparently not available on the web.

The authors also wrote that their findings suggested that talc caused human cancer:

"... we have shown that talc enhances cell proliferation and induces an inhibition in apoptosis ... suggesting talc is a stimulus to the development of the oncogenic phenotype."

The authors did not directly extrapolate their findings, which were specific to the *in vitro* experimental setting, to the *in vivo* development of ovarian cancer in women who use talcum powder. <sup>9</sup>

**42.** In late 2018, a draft screening assessment of talc was published by Health Canada (38). Its assessment of health risks of perineal talcum powder relied extensively on an unpublished systematic review which is discussed below. <sup>10</sup>

Health Canada, in its characterization of risk to human health, stated that perineal use of talc posed a **potential** concern:

"Given that there is the potential for perineal exposure to talc from the use of various self-care products, a potential concern for human health has been identified."

However, Health Canada also noted uncertainties and limitations to its statement:

"There are limitations with the human epidemiological data ... Ovarian cancer, in general, is not well understood and a comparable animal model is not available."

**43**. Health Canada relied on a review by Taher et al. which remains unpublished and is apparently still under peer review as of 2/22/19. I include it in my discussion because it seems potentially relevant.

Taher et al. (39) concluded that talc was a possible cause of ovarian cancer:

 $<sup>^9</sup>$  Talc is regarded as insoluble in water, in weak acids and in weak bases. It is only trivially soluble in tissue fluids (34). In this study, talc was dissolved in DMSO, an industrial solvent not found in the body, which was used as a carrier solvent: "DMSO can have a profound solubilizing effect on less soluble agents ... increasing penetration simply by delivering a higher concentration ..." than would otherwise be possible (35). The DMSO-talc mixture was then "filtered with a 0.2  $\mu$ m syringe filter", hence talc crystals were removed. (Talc particles in both JNJ Baby Powder and in talc powders used for pleurodesis are almost entirely > 0.2  $\mu$ m (36;37)). Thus, cells were exposed *in vitro* to supraphysiological concentrations of dissolved molecular talc, not crystalline talc particles. From a toxicological perspective, the direct relevance of such *in vitro* exposures to those resulting from perineal application of talcum powder seems doubtful.

<sup>&</sup>lt;sup>10</sup> The Health Canada draft cites the review as "Taher MK ..., 2018 ...[in preparation]". It is not available on the web and has not been indexed by NLM (as of 2/01/19). I was provided a typescript manuscript by Taher et al titled "Systematic Review and Meta-Analysis of the Association between Perineal Use of Talc Powder and Risk of Ovarian Cancer" (39) and a second manuscript titled "Supplementary Material" (40), which were apparently produced in this litigation.

"...perineal exposure to talc powder is a possible cause of ovarian cancer in humans."

This conclusion is essentially the same as that of the 2010 IARC assessment.

**44**. During 2014-2019, statements about the causes and risk factors for ovarian cancer were published on the websites of a number of well-regarded agencies and institutions. In some cases, statements underwent modification during that time span. Following are statements from some of those websites listed in chronologic order; the complete statements are presented in Attachment 4:

Brigham and Women's Hospital (2014): "The cause of ovarian cancer is not yet known". The website did <u>not</u> list talc as a risk factor for ovarian cancer (41).

<u>Cancer Council of Australia</u> (2015): "Inferred Risks: Perineal use of talc-based body powder: Not supported by relevant experimental findings." (42)

<u>World Cancer Prevention Fund</u> (2017): "Some studies have found a link between talcum powder (talc) and ovarian cancer, but there's not enough evidence to be certain of this. Even if there were an increased risk, scientists estimate it would be small." (43)

<u>Centers for Disease Control and Prevention</u> (2018): The website does <u>not</u> list talc as a cause or risk factor for ovarian cancer (44).

American Cancer Society (2018): "It has been suggested that talcum powder might cause cancer in the ovaries ... Many studies in women have looked at the possible link between talcum powder and cancer of the ovary. Findings have been mixed ... For any individual woman, if there is an increased risk, the overall increase is likely to very be small." (45)

<u>National Cancer Institute</u> (2018): "Studies of women who used talcum powder (talc) dusted on the perineum (the area between the vagina and the anus) have not found clear evidence of an increased risk of ovarian cancer" (46).

<u>Ovacome</u> (2018): "There have been worries for some years that using talcum powder on the genital area may increase the risk of ovarian cancer. However, so far this has not been proved by research." (47)

<u>Siteman Cancer Center (Your Disease Risk)</u> (2018): As of March, 2017, this website listed nine risk factors for ovarian cancer; it did <u>not</u> list talc. In 2018, the following statement was added: "The regular use of talcum powder in the genital area has been linked to an increased risk of ovarian cancer. It is not clear exactly why this is." (48)

National Cancer Institute (2019): "The weight of evidence does not support an association between perineal talc exposure and an increased risk of ovarian cancer." (49)

<u>Brigham and Women's Hospital</u> (2019): "It's not clear if using talcum powder on the genital area raises the risk for ovarian cancer. Talk with your healthcare provider if you decide that you want to use talcum powder." (50)

45. In summary, I conclude that science has not established that perineal talc use causes ovarian cancer. The most recent meta-analyses (including the unpublished Taher report) concluded that results were only "suggestive," that a causal link "has not yet been established," and that perineal exposure to talc powder is only "a possible cause of ovarian cancer in humans", affirming IARC's 2006 conclusion that perineal use of talc was "possibly carcinogenic to humans (i.e., Group 2B)". As of 2/22/19, well regarded websites (including CDC, NCI, ACS, and Cancer Council of Australia) do not list talc as a cause of ovarian cancer.

### V. Conclusion

- **46**. Outside of reports and testimony by litigation experts, the strongest published statement I have found regarding the proposed carcinogenicity of perineal talc is the 2010 IARC conclusion that the evidence is "*limited*" and that it is "*possibly carcinogenic to humans*", a conclusion that has been repeated in the most recent studies and reports.
- **47**. Accordingly, it is my opinion to a reasonable degree of scientific certainty that science has not established that perineal talc use causes ovarian cancer.

**48**. I reserve the right to revise my opinion in the event that additional information becomes available.

February 25, 2019

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#### **Attachment 1:**

### **Expert Reports, Testimony and other Related Materials**

I have reviewed the following expert reports and testimony, listed alphabetically and chronologically according to the named experts' last name:

Kurt Barnhart: Testimony re: Ristesund (4/27/2016)

Alan Campion: MDL Report (11/16/18) Arch Carson: MDL Report (11/16/18)

Lewis Chodosh: Testimony re: Ristesund (4/21/2016) Lewis Chodosh: Testimony re: Ristesund (4/22/2016) Daniel Clarke-Pearson: MDL Report (11/16/2018)

Graham Colditz: Report (07/31/2015) Graham Colditz: Report (10/05/2016)

Graham Colditz: Deposition (re: Hogans) part 1: (09/19/2015) Graham Colditz: Deposition (re: Hogans) part 2: (10/16/2015) Graham Colditz: Testimony re: Kemp Hearing (08/16/2016)

Daniel Cramer: Report re: Berg (08/24/2011)

Daniel Cramer: Report re: Blaes (04/16/2015) and attachments Daniel Cramer: Report re: Fox (07/31/2015) and attachments Daniel Cramer: Report re: Pfau (07/31/2015) and attachments Daniel Cramer: Report re: Ristesund (11/01/2015) and attachments

Daniel Cramer: Report re: Oules (10/04/2016)
Daniel Cramer: Deposition re: Berg (09/17/2012)
Daniel Cramer: Deposition re: Blaes (05/18/2015)
Daniel Cramer: Deposition re: Ristesund (11/13/2015)
Daniel Cramer: Testimony re: Ristesund (4/19/2016)
Daniel Cramer: Testimony re: Ristesund (4/20/2016)
Daniel Cramer: Testimony re: Kemp Hearing (08/08/2016)

Daniel Cramer: Testimony re: Oules (12/06/2016) Michael M. Crowley: MDL Report (11/12/2018)

Mary J. Cunningham: Testimony re: Kemp Hearing (08/12/2016)

John Godleski: Report re: Oules (07/21/2016) John Godleski: Deposition re: Oules (12/05/2016) John Godleski: Testimony re: Ristesund (4/18/2016) John Godleski: Testimony re: Berg (09/26/2013)

John Godleski Testimony re: Kemp Hearing (08/09/2016)

David Hoel: Deposition re: Blais (09/01/2015) Michael Huncharek: Report re: Berg (04/23/2012)

Sarah E. Kane: MDL Report (11/15/2018)

Robert Kurman: Testimony re: Ristesund (4/25/2016)

Anne McTiernan: MDL Report (11/16/2018) Anne McTiernan: Deposition (01/28/2019) Patricia G. Moorman: MDL Report (11/16/2018)

Joshua: Muscat: Report re: Berg (06/24/2012) and attachments

Joshua: Muscat: Trial Testimony re: Berg (10/01/2013)

Roberta Ness: Report re: Blaes (general causation) (04/2015)

Roberta Ness: Report re: Fox (08/2015) Roberta Ness: Report re: Hancock (09/2015) Roberta Ness: Report re: Pfau (08/2015)

Roberta Ness: Deposition re: Blaes (06/09/2015) Roberta Ness: Deposition re: Fox (10/12/2015) Roberta Ness: Deposition re: Hancock (09/2015) Roberta Ness: Deposition re: Pfau (10/14/2015)

Curtis Omiecinski: Report (04/09/2015) Curtis Omiecinski: Report (09/30/2016)

Curtis Omiecinski: Deposition re: Blaes (05/20/2015)

Curtis Omiecinski: Testimony re: Kemp Hearing (08/15/2016)

Laura Plunket: Report (10/05/2016)

Laura Plunket: Testimony re: Slemp (04/20/2017) Laura Plunket: Testimony re: Slemp (04/21/2017)

Laura Plunket: MDL Report (11/16/2018)

Laura Plunket: Testimony re: Forrest (12/18/2018) Gary Rosenthal: Report re: Berg (08/26/2011) Gary Rosenthal: Report re: Blais (04/16/2015) Gary Rosenthal: Deposition re: Berg (09/19/2012) Gary Rosenthal: Deposition re: Blaes (06/11/2015) Gary Rosenthal: Trial testimony re: Berg (09/27/2013)

Elaine F. Schumacher: Testimony re: Kemp Hearing (08/12/2016)

Ghassan M. Saed: MDL Report (11/16/2018)

Ghassan M. Saed: Deposition (01/23/2019 and 02/14/2019)

Jack Siemiatycki: Report (10/04/2016)

Jack Siemiatycki: Deposition re: Oules (12/15/2016 and 12/16/2016)

Jack Siemiatycki: MDL Report (11/16/2018) Jack Siemiatycki: Deposition (01/29/2019)

Jack Siemiatycki: MDL Report: Addendum (02/01/2019)

Sonal Singh: MDL Report (11/16/2018) Sonal Singh: Deposition (01/16/2019) Ellen Blair Smith: MDL Report (11/16/18)

Rebecca Smith-Bindman: MDL Report (11/15/2018)

David Steinberg: Report re: Blais (04/17/2015)

David Steinberg: Report re: Blais (04/17/2015)
David Steinberg: Report re: Oules (10/05/2016)
David Steinberg: Deposition re: Blais (06/01/2015)

David Steinberg: Testimony re: Kemp Hearing (08/15/2016) Douglas Weed re: Testimony re: Kemp Hearing (08/11/2016)

William Welch: Report re: Oules (09/27/2016)

Judith Wolf: MDL Report (11/16/2018)

April Zambelli-Weiner: MDL Report (11/16/2018)

Judith Zelikoff: MDL Report (11/16/2018)

I have also reviewed the following other related materials:

Opinion of Judge Nelson Johnson, re: Kemp Hearing (09/02/2016)

Gilbert Balderrama: Deposition re: Balderrama (11/24/2015)

Maurice Berkowitz: Deposition re: Balderrama (01/05/2016)

Wei-Chien Lin: Deposition re: Balderrama (01/04/2015)

Plaintiffs Amended Disclosure re: Carl (12/18/2015)

Plaintiffs Disclosure of General Expert Testimony re: Carl (12/18/2015)

Rothman KJ, Pastides H, Samet J: Interpretation of epidemiologic studies on talc

and ovarian cancer (Unpublished report, 11/28/2000).

Internet websites of agencies and institutions including:
American Cancer Society (ACS); Brigham and Women's Hospital; Centers for
Disease Control and Prevention (CDC); Harvard School of Public Health;
International Agency for Research on Cancer (IARC); National Cancer Institute
(NCI); Ovacome; Siteman Cancer Center

## Attachment 2: Materials Considered

- Hygienic Guide Series: Talc. Am Ind Hyg Assoc J 1982.
   Ref ID: 14787
- 2 Talc (Chemical Abstracts Service Registry Number 14807-96-6). Environment and Climate Change Canada; 2018.
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- 19 Anon. When is a carcinogen not a carcinogen? Lancet Oncol 2016; 17:681. Ref ID: 36106
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# Attachment 3: Chronology of Opinions

#### 1982: Cramer et al (1)

"This provides some support for an association between talc and ovarian cancer ... If talc is involved in the etiology of ovarian cancer, it is not clear whether this derives from the asbestos content of talc or from the uniqueness of the ovary which might make it susceptible to carcinogenesis from both talc and other particulates."

#### 1986: IARC Monograph 42 (Talc) (2)

"There is inadequate evidence for the carcinogenicity to humans of talc not containing asbestiform fibres, while there is sufficient evidence for the carcinogenicity to humans of talc containing asbestiform fibres."

#### 1987: IARC Monograph Supplement 7 (Asbestos) (3)

"Some excess of ovarian cancer has been reported in two studies but not in another; exposure to crocidolite was probably more predominant in the studies that showed excesses."

#### 1992: Harlow, Cramer et al (4)

"Because the overall association between genital use of talc and ovarian cancer remains weak, it is unlikely that this exposure-disease pathway is the principal one involved in ovarian cancer etiology." (p. 26)

#### 1995: Harlow & Hartage (5)

"Although several controlled epidemiological studies have investigated the talc and ovarian cancer association, few have collected enough details on methods and frequency of exposures to make a meaningful assessment." (p. 254)

#### 1995: Gross & Berg (6)

"The conclusion reached herein is that the evidence regarding the risk of ovarian cancer associated with talc exposure is equivocal, and further examination of the relationship is required before a sound conclusion can be made." (p. 181)

#### 1996: Heller et al. (7)

"Ovaries were studied from 24 women undergoing incidental oophorectomy who were interviewed regarding talc usage. Twelve subjects reported frequent perineal talc applications; the twelve controls reported no use. ... Talc was identified in all 24 cases by either light or

electron microscopy. Talc particle counts were completely unrelated to reported levels of perineal talc exposure." (p. 1507)

#### 1999: Cramer et al. (8)

"...the association is still viewed with skepticism based upon weak odds ratios, poor doseresponse relationships and an incomplete understanding of the biological mechanism by which talc might lead to ovarian cancer." (p. 351)

"Despite the consistency noted above, the relatively weak odds ratios observed could reflect potential biases, especially recall and confounding ... The most obvious weakness in the argument for biologic credibility of the talc and ovarian cancer association is the lack of a clear dose response ... we do not know precisely how use of talc in the genital area might induce ovarian cancer..." (p. 354-6)

# 2000: Gertig et al (9) (Cramer and Colditz were co-authors)

"... the talc hypothesis ..." (p. 251) See Cramer testimony re: Berg (2013) below

# 2000: Cramer testimony re: Berg (09/25/2013; p. 228)

"Q: So what you're saying in this paper [Gertig 2000] in terms of your talc and ovarian cancer hypothesis as of 2000 is you're calling it a hypothesis, right, the talc hypothesis?

"Q. Do you agree that at this point in time it was still a hypothesis?

"A: That's fine to say ... that's what I thought in 2000."

# 2000: Colditz deposition re: Hogans (09/19/2015; p. 298)

"Q. But back in 2000, were you of the opinion that you write in your report in 2015 that epithelial [sic] talc use can cause ovarian cancer?

"A. Not in 2000. I would not have put all the evidence together at that point to say that."

### 2004: Ness deposition re: Blaes (06/09/15; p. 255-6)

"Q. And when they discussed those studies in the same article that you've cited, they concluded that "The current body of experimental and epidemiologic evidence is insufficient to establish a causal association between perineal use of talc and ovarian cancer risk." And you disagree with that. Correct?

"A. Based -- I -- based on studies -- I don't have an agreement or a disagreement. Based on studies that ended in 2004 -- yes, 2004. So based on 11-year-old studies and no literature beyond that, yes, I feel that that was reasonable to say that there was insufficient evidence at that time."

# 2004: Colditz deposition re: Hogans (10/16/2015; p. 436)

"Q. ... it's still unclear if talc use truly alters cancer risk. That was you opinion in 2004, correct? "A. That was the summary of studies then, yes.

•••

"Q. If we were here in 2004 you would not have the opinions you have today?

"A. In 2004 I believe the inconsistency was still an issue ... more likely than not that would have been my opinion."

#### 2005: Cramer et al. (10)

"Although our present finding may also meet with skepticism, a testable hypothesis is now suggested by the possible link between genital talc exposure and systemic diminution of anti-MUC1 antibodies." (p. 1130)

# 2006: Baan et al. (11)

"In February, 2006, 19 scientists from eight countries met at the International Agency for Research on Cancer (IARC), Lyon, France, to reassess the carcinogenicity of ... non-asbestiform talc. These assessments will be published ... After careful assessment of the biases and possible confounding factors, the working group concluded that the epidemiological studies provided limited evidence for the carcinogenicity of perineal use of talc-based body powder, and classified this use as possibly carcinogenic to human beings (ie, group 2B)." (p. 296)

# 2007: Cramer deposition re: Blaes (05/18/2015 p. 150-1)

"Q: Do you agree, though, that prior to 2007 you never said in any published document ...that talc caused ovarian cancer?

...

"A: There have been several things that have happened since then... We've built up a case showing that the risk is higher in women with certain characteristics or in women of certain age groups ... a stronger biological argument. These have all developed since 2007 in my mind."

#### 2008: Langseth et al. (12)

"The current body of experimental and epidemiological evidence is insufficient to establish a causal association between perineal use of talc and ovarian cancer risk." (p. 359)

#### 2008: Gates et al (13) (Cramer was co-author)

"Epidemiologic evidence suggests a possible association between genital use of talcum powder and risk of epithelial ovarian cancer; however ... the association remains controversial due to the lack of a clear dose-response with increasing frequency or duration of talc use, the possibility of confounding or other biases, and the uncertain biological mechanism." (p. 2436)

# 2010: IARC Monograph 93 (14)

#### "6.1 Cancer in humans

"Perineal use of talc-based body powder is possibly carcinogenic to humans (Group 2B)."

#### **2011: Your Disease Risk.com (Siteman Cancer Center)** (15)

This web site does not list talc as a "Risk Factor" for ovarian cancer. (see Attachment #2)

#### 2011: Colditz deposition re: Hogans (09/19/2015; p. 67)

"Q. Sitting here today, do you know what level of evidence must be reached before a risk factor will be included on Your Disease Risk website?

"A. On Your Disease Risk website, the consensus opinion was that definite and probable causes should be included because the potential benefit to the public of acting on that knowledge would be sufficient to justify having it on the site." (p.67)

Q. So the last review was in 2012?

A. Actually, it was 2011, I believe. (p. 58)

### **2011: Rosenblatt et al (16)**

"Conclusions—The International Agency for Research on Cancer has designated perineal exposure to talc (via the application of genital powders) as a possible carcinogen in women. A modest association of ovarian cancer with this exposure was seen in our study and in some previous ones, but that association generally has not been consistent within or among studies. Therefore, no stronger adjective than "possible" appears warranted at this time." (p. 737)

# 2011: Chen et al (17) (Cramer was co-author)

"The etiology of ovarian cancer is poorly understood but there is clearly a heritable component."

#### 2013: Cramer testimony re: Berg (09/25/2013; p. 211)

"Q: So as we sit here today, is there any peer-reviewed paper, peer-reviewed paper, not expert report, but any peer-reviewed paper that makes the statement that talc, in fact, causes ovarian cancer?

"A. I'm not aware of that."

#### 2013: Terry et al. (18) (Ness was co-author)

"More work is needed to understand how genital powders may exert a carcinogenic effect, and which constituents (e.g., talc) may be involved." (p. 820)

#### 2014: Houghton et al (19)

"Ever use of perineal powder was not associated with risk of ovarian cancer compared with never use. Individually, ever use of powder on the genitals sanitary napkins, or diaphragms was not associated with risk of ovarian cancer compared with never use, nor were there associations with increasing durations of use. Estimates did not differ when stratified by age or tubal ligation status. "Conclusion Based on our results, perineal powder use does not appear to influence ovarian cancer risk." (p. 1 of 6)

### 2014: Wentzensen and Wacholder (20)

"Evidence on perineal talc use as a risk factor for ovarian cancer is more equivocal ... The biological basis of possible talc carcinogenicity is not understood ... Overall, the evidence regarding carcinogenicity of talc use remains inconclusive." (p. 2 of 2)

#### 2015: Ness (21)

"Hill's tenets suggest that talc use causes ovarian cancer".

# 2015: Cramer deposition re: Blaes (05/18/2015 p. 112)

"Q: ... do you ever recall saying in any of your published papers that talc causes ovarian cancer? "A: I would have to review them and see, but probably I did not go to that extent to say it."

# 2015: Cramer deposition re: Blaes (05/18/2015 p. 108)

"Q: Do you consider the MUC1 hypothesis to be still a hypothesis?

"A: Yes, it a hypothesis ... but it's a viable hypothesis".

#### 2015: Cramer deposition re: Ristesund (11/13/2013; p. 93)

"Q: Can you cite for me any authors you [sic] have published a peer reviewed piece of literature where they've said that endometrioid cancer is caused by perineal talc dusting?

"A: "Nobody has said, nobody said that – no, I cannot."

# 2015: Cancer Council of Australia (22) (11/19/2015)

#### "Perineal use of talc-based body powder

Not supported by relevant experimental findings" (see Attachment #2)

## 2016: Webb (23)

"Talc is a natural mineral fiber similar to asbestos, a known carcinogen, and talc fibres have been detected in ovarian tissue. Case-control studies have consistently shown a 20-25% increased risk of ovarian cancer among women who used talc in the genital region. This would equate to a 1.6% lifetime risk of ovarian cancer for a talc-user compared to 1.3% for a non-user. However it is still uncertain whether the association is causal because there is little evidence that risk increases with increasing frequency and/or duration of talc use and the association does not appear to be weaker among women who have undergone procedures such as tubal ligation that would prevent talc from reaching the ovaries. Prospective studies have not reported significant associations overall, although one did report an association for serous cancers, but they had limited power to detect an effect of this magnitude."

#### 2016: Narod (24)

"For the sake of argument, let us suppose that the true risk ratio for ever use of talc and the development of ovarian cancer is 1.2. This estimate is the one generated from the large pooling study and is the level of risk that is under discussion in the media. It is possible that the true risk might be lower or higher than this single estimate. In this scenario, where talc increases the risk of ovarian cancer by 20% beyond the baseline of 1.3% lifetime, it would be challenging to convince the epidemiology community that there is a danger. Simply put, a risk ratio of this size falls outside the resolution of most epidemiologic studies;"

"I don't think we should try to ascribe any particular case of ovarian cancer to prior talc use. The estimate of a risk ratio of 1.2 provides information about the potential contribution of talc to the burden of ovarian cancer in the population, but is not helpful in determining if a specific case is, or is not, the result of talc exposure."

# 2016: National Research Council (25)

"The use of perineal talcum powder has been associated with a 20 to 30 percent increased risk of ovarian cancer, although it also has been shown to vary by histologic subtype."

#### 2016: Brighham and Women's Hospital (26)

"It's not clear if using talcum powder on the genital area raises the risk for ovarian cancer. Talk with your healthcare provider if you decide that you want to use talcum powder."

(see Attachment #2)

# 2017: Berge (27)

"... our meta-analysis identified as small but statistically significant association between genital talc use and risk of ovarian cancer; however, this association was limited to the serous histologic type, and to case-control studies. The results by histologic type might argue for specificity of the association, in the absence, however, of a biologic rationale for an effect on serous carcinoma compared with other types. Several aspects of our results, including the heterogeneity of results between case-control and cohort studies, and the lack of a dose-response with duration and frequency or use, however, do not support a causal interpretation of the association."

# 2018: Berge (28)

"... our meta-analysis identified a small but statistically significant association between genital talc use and risk of ovarian cancer; however, this association was limited to the serous histologic type, and to case-control studies. The results by histologic type might argue for specificity of the association, in the absence, however, of a biologic rationale for an effect on serous carcinoma compared with other types. Several aspects of our results, including the heterogeneity of results between case—control and cohort studies, however, do not support a causal interpretation of the association."

#### 2018: Penninkilampi (29)

"In the present context, the association between talc use and ovarian cancer takes on considerable relevance, as the pharmaceutical and consumer products company Johnson & Johnson has recently had damages levied to the total of US\$717 million against them in five law

suits. In these cases, juries decided that the use of talcum powder caused or contributed to the development of the plaintiff's ovarian cancer. The evidence for the association between perineal talc use and ovarian cancer is based on the body of knowledge from observational studies, and most of these have been retrospective case—control studies prone to recall bias. Hence, while perineal talc use has not been shown to be safe, in a similar regard, a certain causal link between talc use and ovarian cancer has not yet been established."

"The present meta-analysis reports a positive association between perineal talc use and ovarian cancer, specifically of the serous and endometrioid histologic subtypes. The mechanism by which perineal talc use may increase the risk of ovarian cancer is uncertain ... The potential mechanism by which genital talc is associated with an increased risk of ovarian cancer hence remains unclear."

"The results of this review indicate that perineal talc use is associated with a 24%–39% increased risk of ovarian cancer. While the results of case—control studies are prone to recall bias, especially with intense media attention following the commencement of litigation in 2014, the confirmation of an association in cohort studies between perineal talc use and serous invasive ovarian cancer is suggestive of a causal association. Additional epidemiologic evidence from prospective studies with attention to effects within ovarian cancer subtype is warranted. There is a substantial need for further research on a potential mechanism by which ovarian cancer may be caused by talc, as this will allow a causal relationship to be established or rejected with more certainty."

# 2018: **Health Canada (30)**

"The meta-analyses of the available human studies in the peer-reviewed literature indicate a consistent and statistically significant positive association between perineal exposure to talc and ovarian cancer. Further, available data are indicative of a causal effect. Given that there is potential for perineal exposure to talc from the use of various self-care products (e.g., body powder, baby powder, diaper and rash creams, genital antiperspirants and deodorants, body wipes, bath bombs), a potential concern for human health has been identified.

"There are limitations with the human epidemiological data. Potential sources of bias include selection bias due to low response rates or from limiting subjects, and exposure misclassification due to recall bias (Taher et al. 2018). Muscat and Huncharek (2008) also proposed that symptoms of ovarian cancer prior to diagnosis may increase the perineal use of talc and bias the results. However, Narod (2016) and Berge and colleagues (2018) put less emphasis on recall bias. In studies where the exposure is simple (e.g., never versus ever use), recall bias is unlikely to be an important source of bias (Narod 2016). The positive association is strongest for the serous histologic type (Berge et al. 2018; Taher et al. 2018); findings that the association may vary by histologic type detracts from the hypothesis of report bias, as this type of bias would likely operate for all histologic types (Berge et al. 2018).

"Ovarian cancer, in general, is not well understood (National Academy of Sciences, Engineering, and Medicine 2016), and a comparable animal model is not available. Health Canada has identified self-care products with the potential for perineal exposure (e.g., baby powder, body powders, diaper and rash creams, genital antiperspirants and deodorants, body wipes, bath

bombs); however, there is no indication exactly how the products are being used, the extent to which they would contribute to perineal exposure, and with what frequency and amount."

#### 2018: Saed (31)

"Ovarian cancer is the leading cause of death from gynecologic malignancies yet the underlying pathophysiology is not clearly established ... The origin and causes of ovarian tumors remains under debate. Injury to surface epithelial ovarian cells due to repeated ovulation is thought to induce tumorigenesis in these cells and is known as the "incessant ovulation hypothesis." Additionally, hormonal stimulation of the surface epithelium of the ovary has been described to initiate tumorigenesis in surface epithelial cells and is known as the "gonadotropin hypothesis." Moreover, the fallopian tube, and not the ovary, has been suggested to be the origin for most epithelial ovarian cancer. Nevertheless, many cases of ovarian cancer continue to be described as *de novo*."

"Although there is strong epidemiological evidence to suggest an association between talc use and ovarian cancer, the direct link and precise mechanisms have yet to be elucidated ... there is a direct effect of talc on the molecular levels of oxidant and antioxidants, elucidating a potential mechanism for the development of ovarian cancer in response to talc."

#### 2018: Centers for Disease Control and Prevention (32)

This web site does <u>not</u> list talc as a "Risk Factor" for ovarian cancer and it does not discuss avoidance of talc as one of the ways that a woman can reduce her risk of ovarian cancer. (see Attachment #2)

# 2018: National Cancer Institute (33)

"Studies of women who used <u>talcum</u> powder (talc) dusted on the <u>perineum</u> (the area between the <u>vagina</u> and the <u>anus</u>) have not found clear evidence of an increased risk of ovarian cancer."

(see Attachment #2)

# 2018: American Cancer Society (34) (04/11/2018)

"It has been suggested that talcum powder applied directly to the genital area or on sanitary napkins may be carcinogenic (cancer-causing) to the ovaries. Some, studies suggest a very slight increase in risk of ovarian cancer in women who used talc on the genital area. ... Proving the safety of these newer products will require follow-up studies of women who have used them for many years." (see Attachment #2)

#### 2018: Your Disease Risk.com (Siteman Cancer Center) (35)

"The regular use of talcum powder in the genital area has been linked to an increased risk of ovarian cancer. It is not clear exactly why this is." (35) (see Attachment #2)

### 2019: Taher (36)

"In recent decades, there has been increasing concern that perineal exposure to talc, a commonly used personal care product, might be associated with an increased risk of ovarian cancer. However, the data describing this association is somewhat inconsistent."

"We conducted an extensive search, examination, assessment and analysis of evidence from published human and non-human original as well as all published reviews that considered the association between genital/perineal use of talc powder and risk of ovarian cancer ... Consistent with previous evaluations the IARC in 2010 (14), and subsequent evaluations by individual investigators (18;28;29), the present comprehensive evaluation of all currently available relevant data indicates that perineal exposure to talc powder is a possible cause of ovarian cancer in humans."

#### 2019: National Cancer Institute (37)

"The weight of evidence does not support an association between perineal talc exposure and an increased risk of ovarian cancer. Results from case-control and cohort studies are inconsistent."

(see Attachment #2)

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# Attachment 4: Web Pages

#### 2013: YourDiseaseRisk.com (Siteman Cancer Center)

http://www.yourdiseaserisk.wustl.edu/YDRDefault.aspx?ScreenControl=YDRGeneral&ScreenName=YDR OvarianRisk List (2013)

#### "Cancer - Ovarian Cancer"

#### "Risk Factors

Most scientists agree that these findings affect the risk of ovarian cancer. Some may apply to you, but others may not.

Age

Family History

Jewish ethnicity

Height

Birth control pills

Number of births

Breastfeeding

Tied fallopian tubes

Hysterectomy"

# 2015: Cancer Council of Australia (accessed 02/22/19)

https://www.cancer.org.au/about-cancer/causes-of-cancer/environmental-causes/inferred-risk.html

#### "Inferred Risks

#### Perineal use of talc-based body powder

Situation Perineal use of talc-based body powder

Exposure Women using body powder Carcinogen Talc used in this manner

Principal route of exposure Retrograde absorption via reproductive tract

Target organ Ovary

Comment Not supported by relevant experimental findings"

## 2016: Brighham and Women's Hospital (accessed 02/22/19)

http://healthlibrary.brighamandwomens.org/Search/34,17170-1

#### "Use of talcum powder

It's not clear if using talcum powder on the genital area raises the risk for ovarian cancer. Talk with your healthcare provider if you decide that you want to use talcum powder."

#### 2017: World Cancer Research Fund (accessed 02/22/19)

https://www.wcrf.org/informed/articles/can-cosmetics-and-toiletries-cause-cancer

"Some studies have found a link between talcum powder (talc) and ovarian cancer, but there's not enough evidence to be certain of this. Even if there were an increased risk, scientists estimate it would be small."

#### 2018: National Cancer Institute (accessed 02/22/19)

(http://www.cancer.gov/types/ovarian/patient/ovarian-prevention-pdq#section/ 11)

"It is not clear whether the following affect the risk of ovarian, fallopian tube, and primary peritoneal cancer:

•••

"Talc

Studies of women who used <u>talcum</u> powder (talc) dusted on the <u>perineum</u> (the area between the vagina and the anus) have not found clear evidence of an increased risk of ovarian cancer."

#### 2018: Centers for Disease Control and Prevention (accessed 02/22/19)

http://www.cdc.gov/cancer/ovarian/basic\_info/risk\_factors.htm

#### "What Are the Risk Factors for Ovarian Cancer?

There is no way to know for sure if you will get ovarian cancer. Most women get it without being at high risk. However, several factors may increase a woman's risk for ovarian cancer, including if you—

Are middle-aged or older.

Have close family members (such as your mother, sister, aunt, or grandmother) on either your mother's or your father's side, who have had ovarian cancer.

Have a genetic mutation (abnormality) called BRCA1 or BRCA2, or one associated with Lynch syndrome.

Have had breast, colorectal (colon), or cervical cancer, or melanoma.

Have an Eastern European (Ashkenazi) Jewish background.

Have never given birth or have had trouble getting pregnant.

Have endometriosis (a condition where tissue from the lining of the uterus grows elsewhere in the body).

In addition, some studies suggest that women who take estrogen by itself (without progesterone) for 10 or more years may have an increased risk of ovarian cancer."

#### "What Can I Do to Reduce My Risk of Ovarian Cancer?

There is no known way to prevent ovarian cancer. But these things may lower a woman's chance of getting ovarian cancer.

Having used birth control pills.

Having had a tubal ligation (getting your tubes tied), both ovaries removed, or a hysterectomy (an operation in which the uterus, and sometimes the cervix, is removed). Having given birth.

Breastfeeding. Some studies suggest that women who breastfeed for a year or more may have a modestly reduced risk of ovarian cancer."

#### 2018: American Cancer Society (accessed 02/22/19)

https://www.cancer.org/cancer/ovarian-cancer/causes-risks-prevention/risk-factors.html

#### "Talcum powder

"It has been suggested that talcum powder might cause cancer in the ovaries if the powder particles (applied to the genital area or on sanitary napkins, diaphragms, or condoms) were to travel through the vagina, uterus, and fallopian tubes to the ovary."

"Many studies in women have looked at the possible link between talcum powder and cancer of the ovary. Findings have been mixed, with some studies reporting a slightly increased risk and some reporting no increase. Many case-control studies have found a small increase in risk. But these types of studies can be biased because they often rely on a person's memory of talc use many years earlier. One prospective cohort study, which would not have the same type of potential bias, has not found an increased risk. A second found a modest increase in risk of one type of ovarian cancer."

"For any individual woman, if there is an increased risk, the overall increase is likely to very be small. Still, talc is widely used in many products, so it is important to determine if the increased risk is real. Research in this area continues."

#### 2018: Ovacome (accessed 02/22/19)

https://www.ovacome.org.uk/talcum-powder-and-ovarian-cancer

#### "Is there a link between ovarian cancer and talcum powder?

There have been worries for some years that using talcum powder on the genital area may increase the risk of ovarian cancer. However, so far this has not been proved by research."

#### 2018: YourDiseaseRisk.com (Siteman Cancer Center) (accessed 02/22/19)

https://siteman.wustl.edu/prevention/ydr/

#### "Prevention Tips

Over 22,000 women in the United States are diagnosed with ovarian cancer each year. Though ovarian cancer has different subtypes, most scientists agree that these things affect the overall risk of ovarian cancer. Some may apply to you, but others may not. And some you can change, but others you cannot..."

#### "Things you can change: ...

#### Avoid talcum powder

The regular use of talcum powder in the genital area has been linked to an increased risk of ovarian cancer. It is not clear exactly why this is."

#### 2019: National Cancer Institute (accessed 02/22/19)

http://www.cancer.gov/types/ovarian/hp/ovarian-prevention-pdq#section/9) (01/04/2019

# "Factors with Inadequate Evidence of an Association Risk of Ovarian, Fallopian Tube, and Primary Peritoneal Cancer: Perineal talc exposure

"The weight of evidence does not support an association between perineal talc exposure and an increased risk of ovarian cancer. Results from case-control and cohort studies are inconsistent. A meta-analysis of 16 studies observed an increased risk with the use of talc (RR, 1.33; 95% Cl, 1.16–1.45); however, a dose response relationship was not found. A pooled analysis from the Ovarian Cancer Association Consortium, composed of multiple case-control studies, included 8,525 cases and 9,859 controls, found a modest increased risk of epithelial ovarian cancer associated with genital powder use (OR, 1.24; 95% CI, 1.15-1.33), but the trend across increasing lifetime number of applications was not statistically significant (P trend = .17). A population-based case-control study of African American women in the United States found an association between genital powder use and risk of epithelial ovarian cancer (OR, 1.44; 95% CI, 1.11–1.86). In this study of 584 cases and 745 controls, a dose-response relationship for any genital powder use was reported. Specifically, among any genital powder use, daily powder use was associated with increased adjusted OR of developing ovarian cancer (OR, 1.71; 95% CI, 1.26–2.33) compared with less than daily use (OR, 1.12; 95% CI, 0.80–1.58). A cohort study among nurses did not observe a risk of ovarian cancer associated with perineal talc use (RR, 1.09; 95% CI, 0.86–1.37) and there was no evidence of increased risk with increasing frequency of use. Another prospective study, The Women's Health Initiative, examined the association between perineal powder use and the development of ovarian cancer among 61,576 women without a history of cancer at enrollment and who provided exposure information. Among this group, 429 cases of ovarian cancer occurred. Powder use on genitals, sanitary napkins, and diaphragms was examined individually and as a combined exposure. Women were followed for a mean of 12.4 years. An association of ovarian cancer with ever-use was not found when analyzed either by individual method of exposure or by overall combined exposure. The observed risk (hazard ratio) for combined exposure to perineal powder was 1.06 (95% CI, 0.87– 1.28) and there was no increased risk observed for increasing duration of use."

# Exhibit 11

Page 1

IN THE UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF NEW JERSEY

- - -

IN RE: JOHNSON & :
JOHNSON TALCUM POWDER :
PRODUCTS MARKETING, :

SALES PRACTICES, AND : NO. 16-2738 PRODUCTS LIABILITY : (FLW) (LHG)

LITIGATION

:

THIS DOCUMENT RELATES : TO ALL CASES :

- - -

April 1, 2019

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Videotaped deposition of JONATHAN BORAK, M.D., DABT, taken pursuant to notice, was held at the Omni New Haven Hotel, 155 Temple Street, New Haven, Connecticut, beginning at 9:07 a.m., on the above date, before Michelle L. Gray, a Registered Professional Reporter, Certified Shorthand Reporter, Certified Realtime Reporter, and Notary Public.

- - -

GOLKOW LITIGATION SERVICES 877.370.3377 ph | 917.591.5672 fax deps@golkow.com

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6 7 8 9	Kansas City, Missouri 64108 (816) 474-6550 Mhegarty@shb.com Representing the Defendant, Johnson & Johnson entities  TUCKER ELLIS, LLP BY: SANDRA J. WUNDERLICH, ESQ. 100 South Fourth Street, Suite 600 Saint Louis, Missouri 63102 (314) 256-2550	1	6 Borak-7 Expert Report of Jonathan Borak, MD, 7 DABT, 2/25/19 8 Borak-8 Reference List 245 9 Borak-9 Demonstrative 274 Statistically 10 Significant Studies 1982 to 2018 11 Borak-10 Attachment 1 263
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Kansas City, Missouri 64108 (816) 474-6550 Mhegarty@shb.com Representing the Defendant, Johnson & Johnson entities  TUCKER ELLIS, LLP BY: SANDRA J. WUNDERLICH, ESQ. 100 South Fourth Street, Suite 600 Saint Louis, Missouri 63102 (314) 256-2550 Sandra.wunderlich@tuckerellis.com Representing the Defendant, PTI Royston LLC and PTI Union LLC  ALSO PRESENT:  VIDEOTAPE TECHNICIAN:	1 1 1 1 1 1 1 1 2 2	6 Borak-7 Expert Report of Jonathan Borak, MD, DABT, 2/25/19 8 Borak-8 Reference List 245 9 Borak-9 Demonstrative 274 Statistically 10 Significant Studies 1982 to 2018 11 Borak-10 Attachment 1 263 12 Expert Reports, Testimony and Other Related Materials 14 Borak-14 Attachment 2 278 Materials Considered 15 Borak-15 Attachment 3 280 16 Chronology of Opinions 17 Borak-16 Chronology of 286 18 Opinions: Reference List 19 Borak-17 Attachment 4 292 20 Web Pages 21 Borak-19 Report of 205 20 Jonathan Borak, MD
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Kansas City, Missouri 64108 (816) 474-6550 Mhegarty@shb.com Representing the Defendant, Johnson & Johnson entities  TUCKER ELLIS, LLP BY: SANDRA J. WUNDERLICH, ESQ. 100 South Fourth Street, Suite 600 Saint Louis, Missouri 63102 (314) 256-2550 Sandra.wunderlich@tuckerellis.com Representing the Defendant, PTI Royston LLC and PTI Union LLC  ALSO PRESENT:  VIDEOTAPE TECHNICIAN:	1 1 1 1 1 1 1 2 2 2	6 Borak-7 Expert Report of Jonathan Borak, MD, DABT, 2/25/19 8 Borak-8 Reference List 245 9 Borak-9 Demonstrative 274 Statistically 10 Significant Studies 1982 to 2018 11 Borak-10 Attachment 1 263 12 Expert Reports, Testimony and Other Related Materials 14 Borak-14 Attachment 2 278 Materials Considered 15 Borak-15 Attachment 3 280 16 Chronology of Opinions 17 Borak-16 Chronology of 286 18 Opinions: Reference List 19 Borak-17 Attachment 4 292 Web Pages 10 Borak-19 Report of 205

2 (Pages 2 to 5)

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3 4 5 NO. DESCF 6 Borak-21 Affid Jonathan 7 DABT 8 Borak-22 Chron 9 Disease: For a Dos 10 Borak-25 Draft 11 Assessme 12/2018 12 Borak-28 Demo 13 Invoice T 14 Borak-29 Dr. B Suppleme 15 Materials Considere 16 Borak-30 Tech 17 Service for (TASA) I 18 Borak-31 NCI 19	The Search e-Response  Screening 335 nt  Onstrative 158 otals orak 352 ntal  and nical Advisory 154 or Attorneys nvoices  PDQ as of 255  Grade Serous 354 Cancer:		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Direction to Witness Not to Answer PAGE LINE None.  Request for Production of Documents PAGE LINE None.  Stipulations PAGE LINE None.  Questions Marked  PAGE LINE None.
3 4 5 NO. 6 Borak-33 7 R	DESCRIPTION Memorandum /27/19 EE: Talc MDL claintiff Expert nvoices	Page 7 PAGE 230	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	THE VIDEOGRAPHER: We are now on the record. My name is Dan Lawlor. I'm a videographer with Golkow Litigation Services.  Today's date is April 1st, 2019, and the time is 9:07 a.m.  This video deposition is being held in New Haven, Connecticut, in the matter of Talcum Powder Litigation, MDL Number 2738.  The deponent is Jonathan Borak.  Counsel will be noted on the stenographic record.  The court reporter is Michelle Gray who will now swear in the witness.   JONATHAN BORAK, M.D., DABT, having been first duly sworn, was examined and testified as follows:

3 (Pages 6 to 9)

	Page 10		Page 12
1	EXAMINATION	1	last four years.
2		2	Q. In the last
3	BY MR. GOLOMB:	3	A. Four years.
4	Q. Good morning, Dr. Borak.	4	Q. Okay. And is it identified
5	A. Good morning, sir.	5	on that particular list which cases you
6	Q. We were introduced briefly	6	testified in?
7	before the deposition. My name is	7	A. Yes, sir.
8	Richard Golomb. I'm going to be asking	8	Q. All right. At any time
9	you some questions today.	9	during the course of the day, if you want
10	A. Thank you.	10	to take a break, we will take breaks.
11	Q. I know that you've testified	11	Just let us know. We're not here to
12	once before in the talc litigation in the	12	torture anybody. It's not a memory test.
13	Oules case, correct?	13	If you want to take a break, just let
14	A. I believe it was the Oules	14	your attorney, Mr. Locke, know and we'll
15	case, but yes, I have.	15	take a break. Okay?
16	Q. And Mr. Green, who is seated	16	A. Thank you.
17	to my right, he was the lawyer who took	17	Q. If it makes it a lot
18	your deposition?	18	easier for the court reporter if only one
19	A. Yes, I recognize him.	19	of us is speaking at a time. So if you
20	Q. And that was back in June of	20	allow me to finish my question, I'll
21	2017?	21	allow you to finish your answer. That
22	A. I don't remember. But that	22	way you fully hear the question and
23	may be.	23	you and also one of us is only
24	Q. Okay. Have you given any	24	
21	Q. Okay. Have you given any	24	speaking at a time. Okay?
	Page 11		Page 13
1	other testimony in the talc litigation,	1	A. Yes.
2	other than in that case and here today?	2	Q. Okay. Have you seen the
3	A. No, sir.	3	notice of deposition in this case?
4	Q. And other than other than	4	A. Yes.
5	today and that other the case that	5	Q. All right. Let me just show
6	Mr. Green took your deposition, how many	6	you and I have a couple of questions
7	times have you testified by deposition	7	about it.
8	before?	8	(Document marked for
9	A. I believe you were given a	9	identification as Exhibit
1.0	list. And I would I don't remember	10	Borak-1.)
10			Dorak-1.)
10 11	the number. There may be six or eight on	11	BY MR. GOLOMB:
	the number. There may be six or eight on that list in the last four years.	11 12	
11			BY MR. GOLOMB:
11 12	that list in the last four years.	12	BY MR. GOLOMB: Q. This is Exhibit 1, which is
11 12 13	that list in the last four years.  Q. Okay. And we'll look at	12 13	BY MR. GOLOMB: Q. This is Exhibit 1, which is the notice of deposition.
11 12 13 14	that list in the last four years.  Q. Okay. And we'll look at that list. But that list lists	12 13 14	BY MR. GOLOMB: Q. This is Exhibit 1, which is the notice of deposition. Have you seen that before? A. I believe I have.
11 12 13 14 15	that list in the last four years.  Q. Okay. And we'll look at that list. But that list lists identifies, like you said, about six or	12 13 14 15	BY MR. GOLOMB: Q. This is Exhibit 1, which is the notice of deposition. Have you seen that before? A. I believe I have. Q. All right. Now, there is
11 12 13 14 15	that list in the last four years.  Q. Okay. And we'll look at that list. But that list lists identifies, like you said, about six or eight cases. But I'm not sure, and I may be wrong about this. I'm not sure	12 13 14 15 16	BY MR. GOLOMB: Q. This is Exhibit 1, which is the notice of deposition. Have you seen that before? A. I believe I have. Q. All right. Now, there is also and I just got it last night, so
11 12 13 14 15 16	that list in the last four years.  Q. Okay. And we'll look at that list. But that list lists identifies, like you said, about six or eight cases. But I'm not sure, and I may be wrong about this. I'm not sure whether or not it identifies whether you	12 13 14 15 16 17	BY MR. GOLOMB: Q. This is Exhibit 1, which is the notice of deposition. Have you seen that before? A. I believe I have. Q. All right. Now, there is also and I just got it last night, so I'm sorry I don't have copies. But
11 12 13 14 15 16 17	that list in the last four years.  Q. Okay. And we'll look at that list. But that list lists identifies, like you said, about six or eight cases. But I'm not sure, and I may be wrong about this. I'm not sure whether or not it identifies whether you testified by deposition, trial, or both.	12 13 14 15 16 17 18 19	BY MR. GOLOMB: Q. This is Exhibit 1, which is the notice of deposition. Have you seen that before? A. I believe I have. Q. All right. Now, there is also and I just got it last night, so I'm sorry I don't have copies. But Mr. Locke, on behalf of Personal Care
11 12 13 14 15 16 17 18	that list in the last four years.  Q. Okay. And we'll look at that list. But that list lists identifies, like you said, about six or eight cases. But I'm not sure, and I may be wrong about this. I'm not sure whether or not it identifies whether you testified by deposition, trial, or both.  A. It indicates whichever.	12 13 14 15 16 17 18 19 20	BY MR. GOLOMB: Q. This is Exhibit 1, which is the notice of deposition. Have you seen that before? A. I believe I have. Q. All right. Now, there is also and I just got it last night, so I'm sorry I don't have copies. But Mr. Locke, on behalf of Personal Care Products Council, responded to that
11 12 13 14 15 16 17 18 19 20 21	that list in the last four years.  Q. Okay. And we'll look at that list. But that list lists identifies, like you said, about six or eight cases. But I'm not sure, and I may be wrong about this. I'm not sure whether or not it identifies whether you testified by deposition, trial, or both.  A. It indicates whichever.  Q. Okay. How many times have	12 13 14 15 16 17 18 19 20 21	BY MR. GOLOMB: Q. This is Exhibit 1, which is the notice of deposition. Have you seen that before? A. I believe I have. Q. All right. Now, there is also and I just got it last night, so I'm sorry I don't have copies. But Mr. Locke, on behalf of Personal Care Products Council, responded to that notice of deposition and also made some
11 12 13 14 15 16 17 18 19 20	that list in the last four years.  Q. Okay. And we'll look at that list. But that list lists identifies, like you said, about six or eight cases. But I'm not sure, and I may be wrong about this. I'm not sure whether or not it identifies whether you testified by deposition, trial, or both.  A. It indicates whichever.  Q. Okay. How many times have you testified as an expert at trial?	12 13 14 15 16 17 18 19 20 21 22	BY MR. GOLOMB: Q. This is Exhibit 1, which is the notice of deposition. Have you seen that before? A. I believe I have. Q. All right. Now, there is also and I just got it last night, so I'm sorry I don't have copies. But Mr. Locke, on behalf of Personal Care Products Council, responded to that notice of deposition and also made some objections to the notice of deposition.
11 12 13 14 15 16 17 18 19 20 21 22	that list in the last four years.  Q. Okay. And we'll look at that list. But that list lists identifies, like you said, about six or eight cases. But I'm not sure, and I may be wrong about this. I'm not sure whether or not it identifies whether you testified by deposition, trial, or both.  A. It indicates whichever.  Q. Okay. How many times have	12 13 14 15 16 17 18 19 20 21	BY MR. GOLOMB: Q. This is Exhibit 1, which is the notice of deposition. Have you seen that before? A. I believe I have. Q. All right. Now, there is also and I just got it last night, so I'm sorry I don't have copies. But Mr. Locke, on behalf of Personal Care Products Council, responded to that notice of deposition and also made some

Page 14 Page 16 1 Personal Care Products Council's 1 Q. Okay. And in fact, the only 2 Responses and Objections to Plaintiffs' 2 two, quote-unquote, my term, papers, that 3 3 you've done is the report that you wrote Notice of Deposition of Jonathan Borak? A. I don't know. May I see 4 4 in Oules and the report that you wrote in 5 what you're looking at? 5 this case? 6 6 Thank you. It looks like A. Those are the only two something that I've seen that was on my 7 7 documents that I've written that were 8 8 computer. Maybe last Friday it was sent specific to talcum powder. for me to look at. Q. Have you written any 9 9 10 10 articles or published anything -- you Q. Last Friday? 11 A. Three days ago, yes, I think 11 said specifically related to talc. 12 12 Have you written anything so. 13 Q. Okay. I do -- I have some 13 generally related to talc? questions about it. If you look at the A. Only those things that I've 14 14 15 notice of deposition, Exhibit 1, and go 15 written that are relevant to particulates 16 to Question 7. I just want to clarify a 16 and dust, but I don't know that they even couple of things. 17 17 mention talc. A. Seven should be easy to 18 Q. Okay. Question Number 9 is, 18 19 find. 19 "All communications between you and any 20 Q. Okay. You got that? 20 other expert retained or consulted by And the question is: "All 21 21 defendants in connection with the talcum 22 articles, papers, and/or scientific or 22 powder litigation, talcum powder 23 technical publications written, prepared, 23 products, or talc." 24 and/or presented by you or in which you 24 And I just want to be clear. Page 15 Page 17 You haven't had any communication, phone, 1 participated in writing, preparing, or 1 2 presenting that relate to or concern 2 in person, any kind of oral 3 talcum powder products, talc, and/or 3 communication, written communication, 4 talcum powder." 4 e-mail, et cetera, with any of the other 5 experts in the case? 5 I just want -- I want to be 6 clear that there are none, correct? 6 A. Yes, that's correct. 7 7 Q. Question 10, "All scientific A. Yes. 8 Q. You haven't written any or technical publications authored in 8 whole or in part by you which discuss 9 9 articles, papers, scientific or technical 10 talcum powder products." And I just want 10 publications on talc, correct? to be clear. The answer to that is there 11 A. Yes, I have not. 11 12 12 Q. All right. If you take a are none, correct? 13 look at Question 8. And that's all 13 A. Yes, that's correct. documents concerning any research that 14 Q. If you go to Question 14. 14 The question is, "Documents related to you've undertaken that relates to or 15 15 concerns talcum powder products or talc, 16 communications with employees or 16 17 regardless of the outcome of the 17 representatives of any government, regulatory, or trade organization and/or 18 18 research. 19 agency which discusses talcum powder 19 And then there's an answer. products, talc, and/or talcum powder. 20 But I want to be clear, that you haven't 20 Such entities include without limitation 21 done any research on talc, correct? 21 22 A. I have not done any 22 the Center For Regulatory Effectiveness," 23 and then it goes onto list about 10 or 12 23 laboratory research. I have not done any 24 epidemiological research on talc. 24 different organizations.

	Page 18		Page 20
1	Do you see that?	1	Personal Care Products Council, correct?
2	A. Yes, I do.	2	A. That's my understanding.
3	Q. Okay. First of all, are you	3	Q. All right. Have you ever
4	familiar with the Center For Regulatory	4	had any contact whatsoever with the
5	Effectiveness?	5	Personal Care Products Council before
6	A. No.	6	this litigation?
7	Q. Are you familiar with the	7	A. I don't think I ever heard
8	Cosmetic Ingredient Review?	8	of the name before. I don't think I even
9	A. I read some of their	9	heard the name before.
10	documents.	10	Q. Do you know what they do?
11	Q. Do you know what Health	11	A. Not really.
12	Canada is?	12	Q. So if you just take a look
13	A. Yes.	13	at these various organizations, A through
14	Q. Do you know what Industrial	14	P.
15	Mineral Associations of North America is?	15	A. Yes.
16	A. No. I can guess.	16	Q. Is it is it correct that
17	Q. Do you know what the	17	you have not had any communications of
18	International Agency for Research on	18	any kinds with any of these organizations
19	Cancer is?	19	as it relates to talc?
20	A. Yes.	20	A. Yes, that's correct.
21	Q. Okay. Have you ever	21	Q. Question 15 is, "All
22	participated as a panel member for IARC?	22	communications with any employees,
23	A. I have never been a panel	23	editors, editorial boards, review boards,
24	member.	24	agents, liaisons, or affiliates of any
	Page 19		Page 21
1	Q. Have you ever attended an	,	
	Q. Have you ever attended an	1	academic or other published journal
2		2	academic or other published journal regarding tale, talcum powder products,
2	IARC meeting? A. I have attended WHO		regarding tale, talcum powder products, ovarian cancer, asbestos, or any
	IARC meeting? A. I have attended WHO	2	regarding talc, talcum powder products,
3	IARC meeting?	2 3	regarding tale, talcum powder products, ovarian cancer, asbestos, or any
3 4	IARC meeting?  A. I have attended WHO meetings, but I don't know whether they	2 3 4	regarding talc, talcum powder products, ovarian cancer, asbestos, or any combination thereof."
3 4 5	IARC meeting?  A. I have attended WHO meetings, but I don't know whether they were specifically IARC. I don't think	2 3 4 5	regarding talc, talcum powder products, ovarian cancer, asbestos, or any combination thereof."  And I just want to be clear
3 4 5 6	IARC meeting?  A. I have attended WHO meetings, but I don't know whether they were specifically IARC. I don't think so.	2 3 4 5 6	regarding talc, talcum powder products, ovarian cancer, asbestos, or any combination thereof."  And I just want to be clear that your answers that you haven't had
3 4 5 6 7	IARC meeting?  A. I have attended WHO meetings, but I don't know whether they were specifically IARC. I don't think so.  Q. Do you read the IARC	2 3 4 5 6 7	regarding talc, talcum powder products, ovarian cancer, asbestos, or any combination thereof."  And I just want to be clear that your answers that you haven't had any contact with any such boards,
3 4 5 6 7 8	IARC meeting?  A. I have attended WHO meetings, but I don't know whether they were specifically IARC. I don't think so.  Q. Do you read the IARC publications?	2 3 4 5 6 7 8	regarding talc, talcum powder products, ovarian cancer, asbestos, or any combination thereof."  And I just want to be clear that your answers that you haven't had any contact with any such boards, correct?
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	IARC meeting?  A. I have attended WHO meetings, but I don't know whether they were specifically IARC. I don't think so.  Q. Do you read the IARC publications?  A. Of course. Q. Have you ever participated in any way with the on behalf of the National Cancer Institute?  A. I published in JNCI. I don't know whether some committees that I've been on were affiliated with NCI. Q. What kind of committees? A. There were some regulatory, having to do with exposure limits, and I think NCI was a participant. Q. Okay. And exposure limits, was that in the occupational area? A. Environmental.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	regarding talc, talcum powder products, ovarian cancer, asbestos, or any combination thereof."  And I just want to be clear that your answers that you haven't had any contact with any such boards, correct?  A. Yes, that's correct.  Q. And anybody at any publications that may have written on talc or talc causing ovarian cancer?  A. Your question is unclear to me. Are you asking me whether I've ever communicated to editorial folks at journals that have published on talc, or have I communicated about talc with such people?  Q. Okay. About talc.  A. No, I have not.  Q. Okay. And you haven't written any letters to an editor

6 (Pages 18 to 21)

	Page 22		Page 24
1	Q. And no publication has	1	Question 17, refers to whether or not in
2	contacted you to get your thoughts on the	2	any prior cases your testimony, your
3	association between talc and ovarian	3	opinions, your reports, were subject to a
4	cancer; is that correct?		
	•	4	Daubert ruling before. Do you know one
5	A. No.	5	way or the other, whether or not they
6	Q. Is that correct?	6	were?
7	A. No yes, it's correct.	7	A. I do not know one way or
8	No, I have not.	8	another.
9	Q. Okay. Question 17. It	9	Q. Have you ever been involved
10	says, "All prior court orders directly or	10	in a case as an expert where the lawyer
11	indirectly ruling on, deciding, or	11	who retained you said for whatever
12	otherwise adjudicating your ability to	12	reason, a court has determined you can't
13	testify in any prior" "any prior	13	testify?
14	litigation regarding any subject matter."	14	A. I have never had such a
15	Okay. Let me explain to you	15	thing happen.
16	a little bit of the basis of that	16	Q. Okay. Take a look at
17	question that question	17	Question 18. Says, "All documents
18	A. Thank you.	18	related to research, experiments,
19	Q and my question here.	19	testing, or any other study that's been
20	Do you understand that	20	done or is planned to be done by you, at
21	probably sometime over the summer a court	21	your request or upon which you may rely
22	is going to read the reports and hear	22	in this talcum powder litigation which
23	testimony from experts on both sides of	23	relates to talcum powder products, talc,
24	this case? Were you aware of that?	24	and/or talcum powder."
	Page 23		Page 25
			_
1	A. I think I was aware of that.	1	And your I just want to
1 2	<ul><li>A. I think I was aware of that.</li><li>Q. Okay. And do you know what</li></ul>	1 2	
			And your I just want to
2	Q. Okay. And do you know what	2	And your I just want to be clear. Because at least to me, the
2 3	Q. Okay. And do you know what a Daubert hearing is?	2 3	And your I just want to be clear. Because at least to me, the answer to this is is not clear, is
2 3 4	Q. Okay. And do you know what a Daubert hearing is? A. I do. Q. All right. And so you	2 3 4	And your I just want to be clear. Because at least to me, the answer to this is is not clear, is that there are there was no such research, correct?
2 3 4 5	<ul><li>Q. Okay. And do you know what</li><li>a Daubert hearing is?</li><li>A. I do.</li><li>Q. All right. And so you</li><li>generally understand that a Daubert</li></ul>	2 3 4 5	And your I just want to be clear. Because at least to me, the answer to this is is not clear, is that there are there was no such research, correct?  A. Yes, there was no such
2 3 4 5 6 7	Q. Okay. And do you know what a Daubert hearing is? A. I do. Q. All right. And so you generally understand that a Daubert hearing is for a time when a court will	2 3 4 5 6	And your I just want to be clear. Because at least to me, the answer to this is is not clear, is that there are there was no such research, correct?  A. Yes, there was no such research.
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24 MR. LUCKE: Objection. 1 24 MR. HEGARTY: Objection to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	studies, while you you have extrapolated certain paragraphs and referred to them in your reports, you don't you didn't do anything to analyze the underlying data in those case-control and/or cohort studies, correct?  MR. LOCKE: Objection.  THE WITNESS: What do you mean by analyze? BY MR. GOLOMB: Q. Well, you you know that when you you've reviewed the you reviewed all the case-control studies in this case, correct?  A. Yes, that's correct. Q. Okay. And you've also seen the various expert reports from the various epidemiologists who have authored reports and have testified or will be testifying in this case much the same way	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes, I had to summarize some of the data. So to see it, I made charts for myself to look at.  Q. You made charts on the data, but you didn't include them in the report?  A. They were not part of the report. They were just so that I could keep track. My report had to do with who said what and when.  Q. Okay.  A. I was not asked to analyze those individual studies.  Q. Okay. And, in fact, your your opinion in this case is limited to whether or not the scientific data out there, the scientific reports, whether or not there is an association between talc and ovarian cancer, correct?
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8 (Pages 26 to 29)

	Page 30		Page 32
1	the form.	1	BY MR. GOLOMB:
2	THE WITNESS: I I	2	Q. So what you have in front of
3	would if you would give me a	3	you is Exhibit 2, which is your
4	copy of my report, I'll read what	4	curriculum vitae, correct?
5	I said I had done just to be	5	A. Yes.
6	clear.	6	Q. So as if I understand
7	BY MR. GOLOMB:	7	correctly, you do not have a degree in
8	Q. Well well, we'll get to	8	epidemiology; is that correct?
9	your report. When when was the last	9	A. Yes, that's correct.
10	time you read your report?	10	Q. So your so when when
11	A. Last night.	11	we refer to you as Dr. Borak, you are
12	Q. Okay. And so are you are	12	you are literally a medical doctor, a
13	you, based on your review of your report	13	an internist, correct?
14	last night, are you unable to answer my	14	A. I'm an internist,
15	question?	15	occupational physician, toxicologist, and
16	A. The wording was clear in my	16	I spent 20 years as a professor of
17	report, and I don't want to confuse	17	epidemiology at Yale.
18	things. So if you would like me to	18	Q. It's unclear to me from
19	respond to what I did in my report, I	19	your your CV of how you actually
20	will read it to you.	20	became an epidemiologist. How at
21	Q. Okay. Well, what what	21	
22	were you asked to do in this case?	22	what first of all, at what point in
23	A. I was asked to determine who		your career did you become an
23 24		23	epidemiologist?
21	had said what and when regarding the	24	A. I studied epidemiology
	Page 31		Page 33
1	association between talc and ovarian	1	beginning in 1974 at McGill as part of a
2	cancer.	2	Robert Wood Johnson funded postdoctoral
3	Q. Okay. And so you you	3	program in which I was a member.
4	weren't asked to express an opinion on	4	Q. All right. So you you
5	the ultimate question of whether or not	5	graduated from Amherst in 1968, correct?
6	talc causes ovarian cancer, correct?	6	A. That's right.
7	MR. HEGARTY: Objection.	7	Q. And what was your degree in?
8	MR. LOCKE: Objection.	8	A. Economics.
9	THE WITNESS: I I was not	9	Q. And you then, with your
10	asked specifically to opine on	10	economic degree in 1968, you went to
11	whether talc causes ovarian	11	medical school?
12	cancer.	12	A. That's correct.
13	BY MR. GOLOMB:	13	Q. And that was at NYU?
14	Q. Right. Okay. So let's take	14	A. Yes.
15	a look at Exhibit 2, please.	15	Q. And you graduated from NYU
16	(Document marked for	16	in 1972?
17	identification as Exhibit	17	A. Yes.
18	Borak-2.)	18	Q. Where did you do your
19	MR. GOLOMB: Tom, you are	19	residency?
20	going to keep track of the	20	A. At Royal Victoria Hospital
21	originals?	21	in Montreal.
22	MR. LOCKE: Yes. Put them	22	Q. Why did you go to Montreal?
23	right here.	23	A. Beautiful city.
24	MR. GOLOMB: Okay. Thanks.	24	Q. I agree. Except in January
24·			

9 (Pages 30 to 33)

	Page 34		Page 36
1	when it's 20 below zero.	1	Q. Well, when you completed
2	A. If you're a skier, it's not	2	when you completed this training in 1976,
3	too bad.	3	what did you do?
4	Q. When you're taking a	4	A. I didn't finish in 1977 I
5	deposition till 11:30 at night, and it's	5	left McGill.
6	20 below, it's pretty bad.	6	Q. What did you do?
7	A. You have my empathy.	7	A. I came to Yale. And I spent
8	Q. And then what was your	8	a year, I just described to you.
9	residency in?	9	Q. I'm sorry?
10	A. Internal medicine.	10	A. I spent a year, as I just
11	Q. And when did you complete	11	described it to you.
12	your residency?	12	Q. And after when you
13	A. Well, I completed my	13	completed that year, what did you do?
14	training at McGill in 1977.	14	A. I found myself at that point
15	Q. And	15	with a graduate student significant
16	A. I did another year	16	other, subsequently my wife, and I needed
17	postdoctoral training at Yale the	17	to pay the rent, so I took a job in
18	following year.	18	emergency medicine.
19	Q. In what?	19	And my economics came in, in
20	A. Well, that was in	20	the sense of management skills and
21	gastroenterology, funded as a health	21	organizational thought, and I became the
22	physician economist.	22	chair of a large emergency medicine
23	Q. And that was completed when?	23	department in New Haven, Connecticut.
24	A. '78.	24	And I held that job as the director and
	Page 35		Page 37
			rage 37
1	O. What is a health physician	1	
1 2	Q. What is a health physician economist?	1 2	as a clinician for about eight or
	economist?	1	as a clinician for about eight or ten years.
2	economist?  A. Which part are you asking	2	as a clinician for about eight or ten years.  Q. For how many years?
2	economist?	2 3	as a clinician for about eight or ten years.  Q. For how many years? A. I said eight or ten, but I'm
2 3 4	economist?  A. Which part are you asking about? I'm a physician.	2 3 4	as a clinician for about eight or ten years.  Q. For how many years?
2 3 4 5	economist?  A. Which part are you asking about? I'm a physician.  Q. Yeah.	2 3 4 5	as a clinician for about eight or ten years.  Q. For how many years?  A. I said eight or ten, but I'm looking to see the listing.
2 3 4 5 6 7 8	economist?  A. Which part are you asking about? I'm a physician. Q. Yeah. A. I was trained as an	2 3 4 5 6	as a clinician for about eight or ten years.  Q. For how many years?  A. I said eight or ten, but I'm looking to see the listing.  Q. Well, if you look at Page 3
2 3 4 5 6 7 8	economist?  A. Which part are you asking about? I'm a physician.  Q. Yeah.  A. I was trained as an economist. I had gone to graduate school	2 3 4 5 6 7 8 9	as a clinician for about eight or ten years.  Q. For how many years? A. I said eight or ten, but I'm looking to see the listing. Q. Well, if you look at Page 3 of your CV. A. Thank you. Through '88. Q. That was as an associate
2 3 4 5 6 7 8 9	economist?  A. Which part are you asking about? I'm a physician. Q. Yeah. A. I was trained as an economist. I had gone to graduate school in economics at McGill, and I was doing health economics. Q. Health okay. And what is	2 3 4 5 6 7 8 9	as a clinician for about eight or ten years.  Q. For how many years?  A. I said eight or ten, but I'm looking to see the listing.  Q. Well, if you look at Page 3 of your CV.  A. Thank you. Through '88.
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	Page 38		Page 40
1	Q. So and had you had any	1	epidemiologist?
2	training in epidemiology up until that	2	A. I took two sets of boards,
3	point?	3	in occupational medicine and in
4	A. Yes. I had been in in	4	toxicology, both of which subsume
5	graduate school classes in epidemiology.	5	epidemiology concepts and practice.
6	Q. Okay. And your your CV,	6	Passed both of those. I did not take a
7	and correct me if I'm wrong, identifies	7	course degree in epidemiology.
8	for the first time epidemiology in terms	8	Q. Are there are there
9	of your professional experience, it says	9	certifications specifically in
10	associate clinical professor of	10	epidemiology?
11	epidemiology beginning in 1999 through	11	A. Probably. I can't tell you
12	2007.	12	for sure.
13	Is that the first time that	13	Q. But you don't have them, if
14	you had a professional title as an	14	they exist, correct?
15	epidemiologist?	15	MR. LOCKE: Objection.
16	A. Yes, that's correct.	16	THE WITNESS: I've already
17	Q. All right. And how did you,	17	said that epidemiology is part of
18	other than the classes that you took in	18	the requirements and occupational
19	graduate study back in the '70s, how did	19	medicine is part of requirements
20	you become an epidemiologist 20-plus	20	to take the boards or to pass the
21	years later?	21	
22	A. On the basis of the work	22	boards in toxicology. But I don't
		1	have a specific diploma on my wall
23	that I had been doing, I was invited to	23	that says epidemiology.
24	join the faculty and teach.	24	BY MR. GOLOMB:
	Page 39		Page 41
1	Q. What work had you been	1	Q. Okay. So to be to be
2	doing?	2	clear, there are specific certifications
3	A. I had been working in the	3	in epidemiology, correct?
4	area of risk assessment and I'd been	4	A. Yes, I think so.
5	doing epidemiological-type studies, not	5	Q. All right. And you have
6	as though one buys a ticket to get on the	6	you have indicated in fact that you have
7	train.	7	read, by virtue of your report, you have
8	Q. Does one get a degree in	8	read various epidemiology reports in this
9	epidemiology?	9	case, correct?
10	A. Some do.	10	A. Yes.
11	Q. Okay. Do people have	11	Q. And they include, as an
12	masters in epidemiology?	12	example, Dr. Jack Siemiatycki?
13	A. Some do.	13	A. Yes.
14		14	Q. Did you know who
15	Q. Do people have Ph.D.s in	15	
16	epidemiology?	16	Dr. Siemiatycki was before you read his
	A. Some do.	17	report?
17	Q. Do people go to work	1	A. Yes.
18 19	professionally after getting those	18	Q. He is a world-renowned
. 19	various degrees, go to work as an	19	epidemiologist. Would you agree with
		_ ^ ^	
20	epidemiologist?	20	that?
20 21	epidemiologist? A. Some do.	21	MR. HEGARTY: Objection.
20 21 22	epidemiologist?  A. Some do. Q. And I take it you took,	21 22	MR. HEGARTY: Objection. MR. LOCKE: Objection.
20 21 22 23	epidemiologist? A. Some do. Q. And I take it you took, between 1978 and 1999, you took a	21 22 23	MR. HEGARTY: Objection. MR. LOCKE: Objection. THE WITNESS: He is well
20 21 22	epidemiologist?  A. Some do. Q. And I take it you took,	21 22	MR. HEGARTY: Objection. MR. LOCKE: Objection.

11 (Pages 38 to 41)

	Page 42		Page 44
1	BY MR. GOLOMB:	1	before Congress this year on the
2	Q. And so if you read his	2	association between talc and ovarian
3	deposition, you know that he he has a	3	cancer?
4	master's and a doctoral degree and is	4	MR. HEGARTY: Objection.
5	specifically certified in epidemiology,	5	MR. LOCKE: Objection.
6	correct?	6	THE WITNESS: I I don't
7	A. I am not surprised, but I	7	specifically recall when.
8	don't remember.	8	BY MR. GOLOMB:
9	Q. All right. And you also	9	Q. Okay. So your your CV,
10	read the testimony of Dr. Smith-Bindman?	10	it says between 1999 and 2007 that you
11	A. I'm sorry?	11	were an associate clinical professor of
12	Q. You read the testimony of	12	epidemiologist epidemiology and public
13	Dr. Smith-Bindman?	13	health at Yale University. And then from
14	A. Very possibly. It's	14	2017 to I'm sorry, 2007 to 2017 it
15	probably on my list. I don't recall it.	15	says you're a clinical professor of
16	Q. Okay. And like	16	epidemiology.
17	Dr. Siemiatycki, she also has a specific	17	What what's the
18	certification and a Ph.D. in	18	difference between associate clinical
19	epidemiology. Do you recall reading that	19	professor and clinical professor from
20	testimony?	20	a from a practical standpoint?
21	A. I don't recall. I'm sorry.	21	A. It's a promotion.
22		22	
	Q. And do you know who	23	Q. Okay. And then it it
23 24	Dr. Sonal Singh is? A. I recall the name.	24	goes to, rather than saying current like
24	A. I recall the name.	2 <del>4</del>	it does for it says adjunct professor
	Dama 42		
	Page 43		Page 45
1	Q. All right. You've indicated	1	of medicine 2003 to current at Johns
1 2		1 2	
	Q. All right. You've indicated	I	of medicine 2003 to current at Johns
2	Q. All right. You've indicated that you've read his testimony as well?	2	of medicine 2003 to current at Johns Hopkins. It also says 2008 to current, clinical professor of medicine. Your
2	Q. All right. You've indicated that you've read his testimony as well? A. I think I have.	2 3	of medicine 2003 to current at Johns Hopkins. It also says 2008 to current,
2 3 4	<ul><li>Q. All right. You've indicated that you've read his testimony as well?</li><li>A. I think I have.</li><li>Q. Okay. And you know that</li></ul>	2 3 4	of medicine 2003 to current at Johns Hopkins. It also says 2008 to current, clinical professor of medicine. Your stint as a clinical professor of
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. All right. You've indicated that you've read his testimony as well? A. I think I have. Q. Okay. And you know that Dr. Singh also has a Ph.D. in epidemiology and is specifically certified in epidemiology, correct? A. I I don't have any reason to challenge that. But I don't know that to be true. Q. Okay. Do you know who Dr. Ann McTiernan is? A. I have read her report. Q. Okay. Did you know who Dr. McTiernan was prior to before you reading her report and/or testimony? A. No. Q. Did you read the congressional testimony that Dr. McTiernan gave before Congress? A. No, I think I've read reference to it, but	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	of medicine 2003 to current at Johns Hopkins. It also says 2008 to current, clinical professor of medicine. Your stint as a clinical professor of epidemiology ends in 2017?  A. That's correct. Q. All right. So you're you're no longer a professor of epidemiology?  A. I am not that now. Q. Why is that? A. Chose not to. I did not like working with a new chairman of the department and I didn't need it. Q. All right. From a practical standpoint, what what were you doing between 2007 to 2017 as it relates specifically to epidemiology?  A. I taught a number of courses. Q. Well, as a clinical professor, how many courses total,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. All right. You've indicated that you've read his testimony as well?  A. I think I have. Q. Okay. And you know that Dr. Singh also has a Ph.D. in epidemiology and is specifically certified in epidemiology, correct?  A. I I don't have any reason to challenge that. But I don't know that to be true. Q. Okay. Do you know who Dr. Ann McTiernan is? A. I have read her report. Q. Okay. Did you know who Dr. McTiernan was prior to before you reading her report and/or testimony? A. No. Q. Did you read the congressional testimony that Dr. McTiernan gave before Congress? A. No, I think I've read	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	of medicine 2003 to current at Johns Hopkins. It also says 2008 to current, clinical professor of medicine. Your stint as a clinical professor of epidemiology ends in 2017?  A. That's correct. Q. All right. So you're you're no longer a professor of epidemiology?  A. I am not that now. Q. Why is that? A. Chose not to. I did not like working with a new chairman of the department and I didn't need it. Q. All right. From a practical standpoint, what what were you doing between 2007 to 2017 as it relates specifically to epidemiology?  A. I taught a number of courses. Q. Well, as a clinical

Page 46 Page 48 1 A. I -- I have listed all of my Q. Okay. And so am I correct 2 courses on my CV --2 then, given that distinction and 3 3 Q. Well -listening carefully to what you've been 4 4 A. -- if you turn the page it's saying over the last few minutes, is that 5 5 there with the -- with the years and the you -- you never specifically taught a course in epidemiology? 6 names and the course numbers. 7 7 Q. Okay. But I'm asking you MR. LOCKE: Objection. 8 8 without reference to the CV, during any THE WITNESS: I was never 9 given semester, how many courses do you 9 the course director of a course teach? 10 10 listed as epidemiology. 11 11 A. I --BY MR. GOLOMB: 12 12 O. Right. You have lectured MR. LOCKE: Objection. 13 THE WITNESS: Up until 2017 13 from time to time --14 A. Regularly. 14 I taught a full course every 15 semester, and then lectured in a 15 Q. -- in -- in an area of 16 number of other courses. 16 epidemiology? 17 17 A. Yes, regularly. Not from BY MR. GOLOMB: 18 Q. When you say full course, a 18 time to time consistently, but not every 19 single course? 19 week. Yes. 20 20 Q. And -- and you have never --A. Foundations of toxicology. 21 Foundation of risk assessment. Both of 21 you have never taught a course or -- or 22 lectured in a course that in any way had 22 which were required courses in the School anything to do with the association of 23 of Public Health and listed in other 23 schools at Yale. And then I lectured in 24 talc and ovarian cancer, correct? 24 Page 47 Page 49 1 a number of courses in epidemiology and 1 A. I have never, on something 2 public health. 2 that was devoted to talc. It may have 3 Q. Okay. And so when --3 come up in some context casually. But 4 given -- given your -- the distinction 4 not systematically. 5 5 you're making between courses and Q. And out -- outside of 6 lecture -- well, why don't you tell me, 6 your -- your teachings at Yale, I assume 7 what -- what's the difference? 7 that you have, on a number of occasions, 8 8 A. One of them I was the course been asked to lecture outside of Yale to 9 9 director. And the courses that I taught different groups or organizations, 10 when I referred to it that way, I was 10 correct? 11 responsible for every minute of the 11 A. Yes, that's correct. 12 course and taught most of the courses and 12 Q. And you've never lectured on 13 read most of the papers and evaluated 13 talc, ovarian cancer, or the association most of the students and did not use 14 of talc and ovarian cancer; is that 14 15 15 teaching assistants. correct? 16 In other cases I'm called 16 A. Yes, that's correct. 17 upon because of my expertise to 17 Q. Now, you -- on Page 2 of 18 participate in courses that are more 18 your CV, you list your -- your 19 professional certifications. Do you see kaleidoscopic if you would. 19 20 Q. Okay. And -- and the latter 20 that, at the bottom of the page? 21 is, those are the lectures you gave? 21 A. Yes, sir. 22 A. That's right. If I was not 22 Q. And you identify your 23 responsible for the course, I'm not 23 various fellowships and where you are a 24 referring to it that way. 24 diplomat, including the college of

	Domo FO		Daga FO
	Page 50		Page 52
1	physicians, the occupational	1	Q. When did you when did you
2	environmental medicines, toxicology,	2	last have an office at Yale?
3	internal medicine, preventive medicine,	3	A. I have never had an office
4	your license with the medical council of	4	at Yale. I was offered shared space but
5	Canada.	5	never took it.
6	You have no professional	6	Q. Why is that?
7	certification whatsoever specifically	7	A. I didn't need it.
8	related to epidemiology; is that correct?	8	Q. How did do do students
9	MR. LOCKE: Objection.	9	come to you once in a once in a while
10	THE WITNESS: Yes, sir.	10	to talk about their class work and what's
11	You've asked that before. But	11	going on in class?
12	yes, that's true.	12	A. Well, not just once in a
13	BY MR. GOLOMB:	13	while, but yes, they would come to me or
14	Q. Okay. And you are not a	14	sometimes I would meet them on the
15	member of the American College of	15	campus.
16	Epidemiologists; is that correct?	16	Q. Okay. So
17	A. Yes, that's correct.	17	A. That is to say, I would meet
18	Q. You are not a member of the	18	them in the School of Public Health,
19	American Association of Cancer Research?	19	which is about three and a half blocks
20	A. Yes, that's correct.	20	from my office.
21	Q. You are not a member of the	21	Q. Okay. And your your
22	International Epidemiology Association?	22	office for Jonathan Borak & Company is
23	A. That's correct.	23	where?
24	Q. You are not a member of the	24	A. New Haven. 234 Church
	Q. Toward not a memori of me		11. Trew Haven. 23 Females
	Page 51		Page 53
1	Society For Epidemiological Research?	1	Page 53 Street, New Haven.
1 2	Society For Epidemiological Research? A. Yes, that's correct.	l	
1 2 3	Society For Epidemiological Research?  A. Yes, that's correct.  Q. You are not a member of the	1 2 3	Street, New Haven.
1 2 3 4	A. Yes, that's correct. Q. You are not a member of the International Society of Environmental	2 3 4	Street, New Haven. Q. And do you have employees?
1 2 3 4 5	Society For Epidemiological Research? A. Yes, that's correct. Q. You are not a member of the International Society of Environmental Epidemiologists?	2 3 4 5	Street, New Haven. Q. And do you have employees? A. Yes. Q. How many employees? A. At the moment, four. At the
1 2 3 4 5	Society For Epidemiological Research?  A. Yes, that's correct. Q. You are not a member of the International Society of Environmental Epidemiologists?  A. Yes, that's correct.	2 3 4 5 6	Street, New Haven. Q. And do you have employees? A. Yes. Q. How many employees? A. At the moment, four. At the moment, four.
1 2 3 4 5 6	Society For Epidemiological Research?  A. Yes, that's correct. Q. You are not a member of the International Society of Environmental Epidemiologists?  A. Yes, that's correct. Q. Do you read any of their	2 3 4 5 6 7	Street, New Haven. Q. And do you have employees? A. Yes. Q. How many employees? A. At the moment, four. At the
	Society For Epidemiological Research?  A. Yes, that's correct.  Q. You are not a member of the International Society of Environmental Epidemiologists?  A. Yes, that's correct.  Q. Do you read any of their their journals or periodicals?	2 3 4 5 6	Street, New Haven.  Q. And do you have employees?  A. Yes. Q. How many employees? A. At the moment, four. At the moment, four. Q. All right. And in your office space, do you have a private
8	Society For Epidemiological Research?  A. Yes, that's correct.  Q. You are not a member of the International Society of Environmental Epidemiologists?  A. Yes, that's correct.  Q. Do you read any of their their journals or periodicals?  A. Yes.	2 3 4 5 6 7 8 9	Street, New Haven.  Q. And do you have employees? A. Yes. Q. How many employees? A. At the moment, four. At the moment, four. Q. All right. And in your office space, do you have a private office?
8 9 10	A. Yes, that's correct. Q. You are not a member of the International Society of Environmental Epidemiologists? A. Yes, that's correct. Q. Do you read any of their their journals or periodicals? A. Yes. Q. You just chose not to be a	2 3 4 5 6 7 8 9	Street, New Haven.  Q. And do you have employees? A. Yes. Q. How many employees? A. At the moment, four. At the moment, four. Q. All right. And in your office space, do you have a private office? A. Yes.
8 9 10 11	A. Yes, that's correct. Q. You are not a member of the International Society of Environmental Epidemiologists? A. Yes, that's correct. Q. Do you read any of their their journals or periodicals? A. Yes. Q. You just chose not to be a member?	2 3 4 5 6 7 8 9 10	Street, New Haven. Q. And do you have employees? A. Yes. Q. How many employees? A. At the moment, four. At the moment, four. Q. All right. And in your office space, do you have a private office? A. Yes. Q. And in your in your
8 9 10 11 12	Society For Epidemiological Research?  A. Yes, that's correct. Q. You are not a member of the International Society of Environmental Epidemiologists?  A. Yes, that's correct. Q. Do you read any of their their journals or periodicals? A. Yes. Q. You just chose not to be a member? A. Yes.	2 3 4 5 6 7 8 9 10 11 12	Street, New Haven. Q. And do you have employees? A. Yes. Q. How many employees? A. At the moment, four. At the moment, four. Q. All right. And in your office space, do you have a private office? A. Yes. Q. And in your in your private office, are there do you have
8 9 10 11 12 13	Society For Epidemiological Research?  A. Yes, that's correct. Q. You are not a member of the International Society of Environmental Epidemiologists?  A. Yes, that's correct. Q. Do you read any of their their journals or periodicals? A. Yes. Q. You just chose not to be a member?  A. Yes. Q. You have an office at Yale?	2 3 4 5 6 7 8 9 10 11 12 13	Street, New Haven.  Q. And do you have employees? A. Yes. Q. How many employees? A. At the moment, four. At the moment, four. Q. All right. And in your office space, do you have a private office? A. Yes. Q. And in your in your private office, are there do you have are there books?
8 9 10 11 12 13 14	A. Yes, that's correct. Q. You are not a member of the International Society of Environmental Epidemiologists? A. Yes, that's correct. Q. Do you read any of their their journals or periodicals? A. Yes. Q. You just chose not to be a member? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14	Street, New Haven.  Q. And do you have employees? A. Yes. Q. How many employees? A. At the moment, four. At the moment, four. Q. All right. And in your office space, do you have a private office? A. Yes. Q. And in your in your private office, are there do you have are there books? A. Yes.
8 9 10 11 12 13 14 15	Society For Epidemiological Research?  A. Yes, that's correct. Q. You are not a member of the International Society of Environmental Epidemiologists?  A. Yes, that's correct. Q. Do you read any of their their journals or periodicals? A. Yes. Q. You just chose not to be a member?  A. Yes. Q. You have an office at Yale? A. No. Q. Did you at one point have an	2 3 4 5 6 7 8 9 10 11 12 13	Street, New Haven.  Q. And do you have employees? A. Yes. Q. How many employees? A. At the moment, four. At the moment, four. Q. All right. And in your office space, do you have a private office? A. Yes. Q. And in your in your private office, are there do you have are there books?
8 9 10 11 12 13 14	Society For Epidemiological Research?  A. Yes, that's correct. Q. You are not a member of the International Society of Environmental Epidemiologists?  A. Yes, that's correct. Q. Do you read any of their their journals or periodicals? A. Yes. Q. You just chose not to be a member?  A. Yes. Q. You have an office at Yale? A. No.	2 3 4 5 6 7 8 9 10 11 12 13 14	Street, New Haven.  Q. And do you have employees? A. Yes. Q. How many employees? A. At the moment, four. At the moment, four. Q. All right. And in your office space, do you have a private office? A. Yes. Q. And in your in your private office, are there do you have are there books? A. Yes.
8 9 10 11 12 13 14 15	Society For Epidemiological Research?  A. Yes, that's correct. Q. You are not a member of the International Society of Environmental Epidemiologists?  A. Yes, that's correct. Q. Do you read any of their their journals or periodicals? A. Yes. Q. You just chose not to be a member?  A. Yes. Q. You have an office at Yale? A. No. Q. Did you at one point have an	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Street, New Haven.  Q. And do you have employees? A. Yes. Q. How many employees? A. At the moment, four. At the moment, four. Q. All right. And in your office space, do you have a private office? A. Yes. Q. And in your in your private office, are there do you have are there books? A. Yes. Q. And are there journals, or
8 9 10 11 12 13 14 15 16	Society For Epidemiological Research?  A. Yes, that's correct. Q. You are not a member of the International Society of Environmental Epidemiologists?  A. Yes, that's correct. Q. Do you read any of their their journals or periodicals?  A. Yes. Q. You just chose not to be a member?  A. Yes. Q. You have an office at Yale? A. No. Q. Did you at one point have an office at Yale?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Street, New Haven.  Q. And do you have employees? A. Yes. Q. How many employees? A. At the moment, four. At the moment, four. Q. All right. And in your office space, do you have a private office? A. Yes. Q. And in your in your private office, are there do you have are there books? A. Yes. Q. And are there journals, or periodicals that you read?
8 9 10 11 12 13 14 15 16 17	Society For Epidemiological Research?  A. Yes, that's correct. Q. You are not a member of the International Society of Environmental Epidemiologists?  A. Yes, that's correct. Q. Do you read any of their their journals or periodicals? A. Yes. Q. You just chose not to be a member?  A. Yes. Q. You have an office at Yale? A. No. Q. Did you at one point have an office at Yale? A. There was a shared office floor, but my private office is on the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Street, New Haven.  Q. And do you have employees? A. Yes. Q. How many employees? A. At the moment, four. At the moment, four. Q. All right. And in your office space, do you have a private office? A. Yes. Q. And in your in your private office, are there do you have are there books? A. Yes. Q. And are there journals, or periodicals that you read? A. Yes, although we have turned
8 9 10 11 12 13 14 15 16 17 18	Society For Epidemiological Research?  A. Yes, that's correct. Q. You are not a member of the International Society of Environmental Epidemiologists?  A. Yes, that's correct. Q. Do you read any of their their journals or periodicals?  A. Yes. Q. You just chose not to be a member?  A. Yes. Q. You have an office at Yale? A. No. Q. Did you at one point have an office at Yale? A. There was a shared office	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Street, New Haven.  Q. And do you have employees? A. Yes. Q. How many employees? A. At the moment, four. At the moment, four. Q. All right. And in your office space, do you have a private office? A. Yes. Q. And in your in your private office, are there do you have are there books? A. Yes. Q. And are there journals, or periodicals that you read? A. Yes, although we have turned to digital format so that I don't actually retain the hard copies. I've
8 9 10 11 12 13 14 15 16 17 18	Society For Epidemiological Research?  A. Yes, that's correct. Q. You are not a member of the International Society of Environmental Epidemiologists?  A. Yes, that's correct. Q. Do you read any of their their journals or periodicals? A. Yes. Q. You just chose not to be a member?  A. Yes. Q. You have an office at Yale? A. No. Q. Did you at one point have an office at Yale?  A. There was a shared office floor, but my private office is on the campus, so there was no reason to make	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Street, New Haven.  Q. And do you have employees? A. Yes. Q. How many employees? A. At the moment, four. At the moment, four. Q. All right. And in your office space, do you have a private office? A. Yes. Q. And in your in your private office, are there do you have are there books? A. Yes. Q. And are there journals, or periodicals that you read? A. Yes, although we have turned to digital format so that I don't
8 9 10 11 12 13 14 15 16 17 18 19 20	Society For Epidemiological Research?  A. Yes, that's correct. Q. You are not a member of the International Society of Environmental Epidemiologists?  A. Yes, that's correct. Q. Do you read any of their their journals or periodicals?  A. Yes. Q. You just chose not to be a member?  A. Yes. Q. You have an office at Yale? A. No. Q. Did you at one point have an office at Yale?  A. There was a shared office floor, but my private office is on the campus, so there was no reason to make take advantage of that. Q. Your when you say your	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Street, New Haven.  Q. And do you have employees? A. Yes. Q. How many employees? A. At the moment, four. At the moment, four. Q. All right. And in your office space, do you have a private office? A. Yes. Q. And in your in your private office, are there do you have are there books? A. Yes. Q. And are there journals, or periodicals that you read? A. Yes, although we have turned to digital format so that I don't actually retain the hard copies. I've got a lot of PDFs, but that's sort of the same.
8 9 10 11 12 13 14 15 16 17 18 19 20 21	Society For Epidemiological Research?  A. Yes, that's correct. Q. You are not a member of the International Society of Environmental Epidemiologists?  A. Yes, that's correct. Q. Do you read any of their their journals or periodicals?  A. Yes. Q. You just chose not to be a member?  A. Yes. Q. You have an office at Yale? A. No. Q. Did you at one point have an office at Yale? A. There was a shared office floor, but my private office is on the campus, so there was no reason to make take advantage of that. Q. Your when you say your private office, is that Jonathan Borak &	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Street, New Haven.  Q. And do you have employees? A. Yes. Q. How many employees? A. At the moment, four. At the moment, four. Q. All right. And in your office space, do you have a private office? A. Yes. Q. And in your in your private office, are there do you have are there books? A. Yes. Q. And are there journals, or periodicals that you read? A. Yes, although we have turned to digital format so that I don't actually retain the hard copies. I've got a lot of PDFs, but that's sort of the same. Q. And what kind of books, like
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Society For Epidemiological Research?  A. Yes, that's correct. Q. You are not a member of the International Society of Environmental Epidemiologists?  A. Yes, that's correct. Q. Do you read any of their their journals or periodicals?  A. Yes. Q. You just chose not to be a member?  A. Yes. Q. You have an office at Yale? A. No. Q. Did you at one point have an office at Yale?  A. There was a shared office floor, but my private office is on the campus, so there was no reason to make take advantage of that. Q. Your when you say your	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Street, New Haven.  Q. And do you have employees? A. Yes. Q. How many employees? A. At the moment, four. At the moment, four. Q. All right. And in your office space, do you have a private office? A. Yes. Q. And in your in your private office, are there do you have are there books? A. Yes. Q. And are there journals, or periodicals that you read? A. Yes, although we have turned to digital format so that I don't actually retain the hard copies. I've got a lot of PDFs, but that's sort of the same.

	Page 54		Page 56
1	A. It's too many for me to	1	A. He is a very smart man, and
2	begin that. Why don't you ask me a more	2	he likes Borges, a writer whom I think
3	specific question. Do you have this? Do	3	very highly of. We shared short stories
4	you have that? I will try to answer you.	4	with one other. I think he's a very
5	Q. Do you subscribe to the	5	bright guy.
6	American Journal of Epidemiology?	6	Q. And are you familiar with
7	A. No, I look at it online	7	Dr. Rothman's writings on the hierarchy
8	through the Yale library.	8	or the weight of evidence in
9	Q. Do you subscribe to the	9	epidemiology?
10	International Journal of Epidemiology?	10	MR. HEGARTY: Objection.
11	A. No. I read it online at the	11	MR. LOCKE: Objection.
12	Yale library.	12	THE WITNESS: I don't know
13	Q. Do you subscribe to the	13	what you mean by am I familiar.
14	Journal of Clinical Epidemiology?	14	I've read some of his work on
15	A. No. I sometimes look at it	15	that.
16	on the Yale library.	16	BY MR. GOLOMB:
17	Q. Do you subscribe to Clinical	17	Q. Okay. And is his view on
18	Epidemiology?	18	the hierarchy of evidence in epidemiology
19	A. No. I have occasionally	19	consistent with your own view?
20	reviewed it directly online in the Yale	20	MR. LOCKE: Objection.
21	library.	21	MR. HEGARTY: Objection.
22	Q. Do you subscribe to	22	THE WITNESS: Would you tell
23	Epidemiology?	23	me what it is specific that you're
24	A. I do not subscribe to it. I	24	asking me?
	Page 55		Page 57
1	read it online in the Yale library.	1	BY MR. GOLOMB:
2	Q. Do you subscribe to the	2	Q. Well, do you know what his
3	Journal of Epidemiology?	3	view is on hierarchy of evidence?
4	A. I do not subscribe to it. I	4	A. Perhaps you can ask me a
5	read it when I need to online through the	5	more specific question.
6	Yale library.	6	Q. I don't think I can ask you
7	Q. Do you subscribe to Cancer	7	any more specifically than the question
8	Epidemiology?	8	that calls for a yes or no answer. And
9	A. I do not subscribe to it.	9	that is, are you familiar with
10	When I need it, I read it online through	10	Dr. Rothman's writings on the hierarchy
11	the Yale library.	11	of evidence as it relates to
12	Q. Do you know who Dr. Ken	12	epidemiology?
13	Rothman is?	13	A. I have read
14	A. Yes. We're old friends.	14	MR. LOCKE: Objection.
15	Q. I'm sorry?	15	MR. HEGARTY: Objection.
16	A. I said we are old friends.	16	THE WITNESS: Excuse me.
17	Q. Okay. And would we find his	17	I have read some of his
	book on Modern Epidemiology in your	18	writings on that, but I'm not sure
18		1 1 0	
18 19	office?	19	what you have specifically in
18 19 20	office?  A. At least two versions, maybe	20	mind.
18 19 20 21	office?  A. At least two versions, maybe three.	20 21	mind. BY MR. GOLOMB:
18 19 20 21 22	office?  A. At least two versions, maybe three.  Q. Okay. So I am I correct	20 21 22	mind. BY MR. GOLOMB: Q. Do you do you hold any
18 19 20 21	office?  A. At least two versions, maybe three.	20 21	mind. BY MR. GOLOMB:

15 (Pages 54 to 57)

	Page 58		Page 60
1	has to do with epidemiology or not, with	1	Q. And have you written any
2	any journal?	2	books in epidemiology?
3	A. Yes.	3	A. Not specifically with that
4	Q. What?	4	title, no.
5	A. I'm on the editorial board	5	Q. Have you written any book
6	of the Journal of Occupational and	6	chapters in epidemiology?
7	Environmental Health Medicine. I'm a	7	A. I have written book chapters
8	member of the editorial board of the	8	that dealt with the epidemiological
9	Journal of Occupational and Environmental	9	aspects of certain kinds of exposures,
10	Health Hygiene. I'm on the editorial	10	but not specifically on epidemiology.
11	board of Occupational Medicine.	11	Q. Okay. And those those
12	Q. Okay. Is it fair to say	12	chapters were more specifically related
13	that your research interests, your	13	to hazardous materials and the effects of
14	teaching interest, is more related to	14	hazardous materials, correct?
15	occupational and environmental health	15	A. More or less. Not not
16	than it is to epidemiology?	16	exclusively. But generally.
17	MR. LOCKE: Objection.	17	Q. As an example, in just going
18	THE WITNESS: No. I don't	18	through your lists and doing some
19	think that's true. I am not	19	independent research, you seem to have a
20	focused on that.	20	specific interest generally in
21	BY MR. GOLOMB:	21	occupational/environmental health, but as
22	Q. Not focused on?	22	a subset of that in specifically in
23	A. Occupational health, as	23	beryllium exposure?
24	you've just described it.	24	MR. LOCKE: Objection.
	Page 59		Page 61
1	Q. You are or not?	1	BY MR. GOLOMB:
2	A. I am not. I look at the	2	Q. Is that fair?
3	interface of epidemiology and toxicology	3	A. I have been involved with
4	and its application to clinical practice.	4	the issue of beryllium for a number of
5	Q. Well and well, let me	5	years, but it's not from the clinical
6	ask you. Have you ever had a clinical	6	practice. We don't see much of it in New
7	practice as an internist?	7	Haven.
8	A. Yes. But not in a number of	8	Q. And your you have written
9	years.	9	some articles related to internal
10	Q. When did you have	10	medicine, correct?
11	•	11	medicine, correct? A. Yes.
11 12	Q. When did you have	11 12	
11 12 13	<ul><li>Q. When did you have</li><li>A. It was years ago. I</li></ul>	11 12 13	A. Yes. Q. You've written some articles related to emergency medicine, correct?
11 12 13 14	Q. When did you have A. It was years ago. I spent the most recent time that I supported myself as a full-time clinician was in the late '80s, when I was running	11 12	A. Yes. Q. You've written some articles related to emergency medicine, correct? A. Yes.
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11 12 13 14 15 16 17 18 19 20 21	Q. When did you have A. It was years ago. I spent the most recent time that I supported myself as a full-time clinician was in the late '80s, when I was running a large inner city trauma center and saw patients probably 60, 65 percent of my time and did so for about eight years.  I've never had an office practice in internal medicine since I left Montreal. I had one there.  Q. And you left Montreal when?	11 12 13 14 15 16 17 18 19 20 21	A. Yes. Q. You've written some articles related to emergency medicine, correct? A. Yes. Q. You've written some articles related to industrial accidents, correct? A. Long ago, yes. Q. You've written some articles related, as you said, to beryllium exposure, correct? A. Well, that's one of the

16 (Pages 58 to 61)

	D 62		D 64
	Page 62		Page 64
1	I'm wrong, from the list of articles	1	papers, or at least two that had
2	you've got beginning on Page 9 of your	2	to do with mortality disparities
3	CV, beginning it says books and	3	in Appalachia looking at risk
4	monographs.	4	factors. And that was an
5	Do you see that?	5	epidemiological study,
6	A. Yes.	6	specifically epidemiological,
7	Q. And then well, on Page	7	using databases.
8	11, begins a list of journal articles.	8	The papers that we've done
9	And that list goes on for 14 pages. And	9	on methylmethacrylate had to do
10	as best as I can tell, correct me if I'm	10	with a specific chemical, but it
11	wrong, I can see two articles that are	11	looked at the epidemiological
12	specifically related to epidemiology.	12	aspects of the reports to
13	The first is an article that	13	determine those which were valid
14	you wrote in 2004 entitled "Who is	14	and how to interpret them.
15	Hispanic? Implications of	15	Seafood arsenic and the use
16	Epidemiological Research in the United	16	of the the beryllium
17	States." And that was an article that	17	particularly the most recent one
18	you wrote for Environmental Health. And	18	on beryllium, which was a search
19	the second one	19	for a dose-response, a number of
20	A. No, sir. That was	20	these, all of them are steeped in
21	Q. I'm sorry, for Epidemiology	21	the concepts of epidemiology for
22	Magazine.	22	the purpose of interpretation and
23	A. Thank you.	23	understanding.
24	Q. Right. And the second	24	BY MR. GOLOMB:
	Page 63		Page 65
1	article is that you wrote for	1	
1 2	article is that you wrote for Environmental Health, which discussed	1 2	Q. The article on dose-response
2	Environmental Health, which discussed	2	Q. The article on dose-response in in beryllium that you mentioned,
2	Environmental Health, which discussed cancer for populations near a toxic waste	2	Q. The article on dose-response in in beryllium that you mentioned, there there is no dose-response
2 3 4	Environmental Health, which discussed cancer for populations near a toxic waste site.	2 3 4	Q. The article on dose-response in in beryllium that you mentioned, there there is no dose-response relationship in beryllium exposure,
2 3 4 5	Environmental Health, which discussed cancer for populations near a toxic waste site.  A. There was such a paper, yes.	2 3 4 5	Q. The article on dose-response in in beryllium that you mentioned, there there is no dose-response relationship in beryllium exposure, correct?
2 3 4 5 6	Environmental Health, which discussed cancer for populations near a toxic waste site.  A. There was such a paper, yes.  MR. HEGARTY: Objection.	2 3 4 5 6	Q. The article on dose-response in in beryllium that you mentioned, there there is no dose-response relationship in beryllium exposure, correct?  A. No.
2 3 4 5 6 7	Environmental Health, which discussed cancer for populations near a toxic waste site.  A. There was such a paper, yes.  MR. HEGARTY: Objection. BY MR. GOLOMB:	2 3 4 5 6 7	Q. The article on dose-response in in beryllium that you mentioned, there there is no dose-response relationship in beryllium exposure, correct?  A. No. Q. So
2 3 4 5 6 7 8	Environmental Health, which discussed cancer for populations near a toxic waste site.  A. There was such a paper, yes.  MR. HEGARTY: Objection.  BY MR. GOLOMB:  Q. Okay. There's I I	2 3 4 5 6	Q. The article on dose-response in in beryllium that you mentioned, there there is no dose-response relationship in beryllium exposure, correct?  A. No. Q. So A. That's no, there is a
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	Daga 66		Daga 60
	Page 66		Page 68
1	was sometime in the late '40s.	1	it's not linear, what do what do you
2	There may have been cases reported	2	mean?
3	before that.	3	MR. HEGARTY: Objection.
4	BY MR. GOLOMB:	4	THE WITNESS: I mean that if
5	Q. And and beryllium, in	5	you look at the dose and response
6	that case, the concern was on behalf of	6	rates for different groups, it
7	people who worked in the fluorescent	7	would be a linear, as opposed to a
8	light bulb factories who were being	8	curved distribution. And I think
9	exposed to beryllium dust, correct?	9	that the beryllium data doesn't
10	A. I don't know that they knew	10	allow you to sufficiently
11	that they were being exposed at the time	11	differentiate between linear and
12	to beryllium dust. But, yes, they were	12	curvilinear, but there is evidence
13	workers in a fluorescent factory.	13	that it's monotonic.
14	Q. All right. And and we'll	14	BY MR. GOLOMB:
15	take a closer look at this and your	15	Q. Okay. And, in fact, you
16	your article on beryllium and	16	know from your research in in
17	dose-response. But it was concluded in	17	beryllium exposure, that as an example,
18	that 1946 study, that yes, in fact,	18	when we talk about linear dose-response,
19	beryllium dust can cause chronic	19	<del>-</del>
20	beryllium disease and/or berylliosis, but	20	that you could have a worker at a
21		l	beryllium plant who is exposed to
22	there was no dose-response found,	21	beryllium on a daily basis in large
	correct?	22	amounts and never be effected in terms of
23	MR. LOCKE: Objection.	23	disease, berylliosis or chronic beryllium
24	THE WITNESS: I I don't	24	disease, correct?
	Page 67		
	Page 07		Page 69
1	_	1	
1 2	know that they even spoke of	1 2	MR. HEGARTY: Objection.
2	know that they even spoke of dose-response at that time.	2	MR. HEGARTY: Objection. MR. LOCKE: Objection.
2	know that they even spoke of dose-response at that time. BY MR. GOLOMB:	2	MR. HEGARTY: Objection. MR. LOCKE: Objection. THE WITNESS: Chronic
2 3 4	know that they even spoke of dose-response at that time.  BY MR. GOLOMB:  Q. Do you know what the do	2 3 4	MR. HEGARTY: Objection. MR. LOCKE: Objection. THE WITNESS: Chronic beryllium disease seems to be
2 3 4 5	know that they even spoke of dose-response at that time.  BY MR. GOLOMB:  Q. Do you know what the do you know what I mean when I say linear	2 3 4 5	MR. HEGARTY: Objection. MR. LOCKE: Objection. THE WITNESS: Chronic beryllium disease seems to be something that manifests only in
2 3 4 5 6	know that they even spoke of dose-response at that time.  BY MR. GOLOMB:  Q. Do you know what the do you know what I mean when I say linear dose-response?	2 3 4 5 6	MR. HEGARTY: Objection. MR. LOCKE: Objection. THE WITNESS: Chronic beryllium disease seems to be something that manifests only in those who are genetically
2 3 4 5 6 7	know that they even spoke of dose-response at that time.  BY MR. GOLOMB:  Q. Do you know what the do you know what I mean when I say linear dose-response?  MR. LOCKE: Objection.	2 3 4 5 6 7	MR. HEGARTY: Objection. MR. LOCKE: Objection. THE WITNESS: Chronic beryllium disease seems to be something that manifests only in those who are genetically predisposed.
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18 (Pages 66 to 69)

	Page 70		Page 72
1	MR. LOCKE: Objection.	1	patient was one of 100,000 people that
2	THE WITNESS: but you're	2	may have been a participant in a cohort
3	misusing it, sir.	3	study, do you?
4	BY MR. GOLOMB:	4	MR. LOCKE: Objection.
5		5	•
	Q. Okay. So let let me ask		THE WITNESS: You're asking
6	you this, have have you ever been an	6	me to define the word participant.
7	investigator or participated in a	7	I have never had my name listed to
8	clinical trial?	8	the best of my knowledge in such a
9	A. Not since I left my	9	situation.
10	training.	10	BY MR. GOLOMB:
11	Q. When you left your training	11	Q. Have you ever been a
12	in?	12	principal investigator in a case-control
13	A. In there may have been	13	study?
14	some clinical trials going on at Yale	14	A. No, I don't think so.
15	when I was a fellow at Yale.	15	Q. Have you ever participated
16	Q. Okay.	16	in a case-control study?
17	A. And there were some clinical	17	A. Yes. But not to the point
18	trials going on when I was a resident in	18	of necessarily I'm trying to think if
19	Montreal. But I have not undertaken any	19	I was would have been listed as a
20	on my own.	20	participant or merely as a clinician who
21	Q. Have you participated in any	21	was involved in such a study.
22	in your professional life?	22	Q. Have you ever performed a
23	A. That's what I mean, I	23	meta-analysis?
24	participated, I contributed to them.	24	A. Yes.
	paracipaton, i contine and in them.		
	Page 71		Page 73
1	Q. Okay. But you you were	1	Q. When?
2	never principal investigator?	2	A. Regularly. I've had some
3	A. That's what I meant.	3	the one that's published here is on
4	Q. And you haven't participated	4	cancer on the brain in rubber workers.
5	since your medical school training?	5	Q. Can you go into your CV
6	A. Not that I'm aware of.	6	and and point that out for me?
7	Q. Okay. Have you ever been a	7	A. How about on Page 14. Borak
8	principal investigator in a cohort study?	8	Slade, Russi, "Risks of Brain Tumors in
9	A. No.	9	Rubber Workers: A Meta-analysis."
10	Q. Have you ever participated	10	Q. Okay. I I'm sorry, but
11	in any way in a cohort study?	11	can you show me where on the page that
12	A. Not that I can specifically	12	is?
		1	
13	recall. But it's possible that I have	13	A. One, two, three, four five
13 14	recall. But it's possible that I have	13 14	A. One, two, three, four, five,
14	seen patients who were part of a cohort	14	six seven up from the bottom on page
14 15	seen patients who were part of a cohort study and, therefore, indirectly	14 15	six seven up from the bottom on page 14.
14 15 16	seen patients who were part of a cohort study and, therefore, indirectly contributed.	14 15 16	six seven up from the bottom on page 14. Q. Okay. Borak, Slade, Russi?
14 15 16 17	seen patients who were part of a cohort study and, therefore, indirectly contributed.  Q. Patients as an internist?	14 15 16 17	six seven up from the bottom on page 14. Q. Okay. Borak, Slade, Russi? That's the article you're referring to?
14 15 16 17 18	seen patients who were part of a cohort study and, therefore, indirectly contributed.  Q. Patients as an internist?  A. Emergency physician, as an	14 15 16 17 18	six seven up from the bottom on page 14. Q. Okay. Borak, Slade, Russi? That's the article you're referring to? A. Borak, Slade, Russi.
14 15 16 17 18 19	seen patients who were part of a cohort study and, therefore, indirectly contributed.  Q. Patients as an internist?  A. Emergency physician, as an occupational physician, toxicologist, I	14 15 16 17 18 19	six seven up from the bottom on page 14. Q. Okay. Borak, Slade, Russi? That's the article you're referring to? A. Borak, Slade, Russi. Q. Okay. Did you ever have
14 15 16 17 18 19 20	seen patients who were part of a cohort study and, therefore, indirectly contributed.  Q. Patients as an internist?  A. Emergency physician, as an occupational physician, toxicologist, I don't know.	14 15 16 17 18 19 20	six seven up from the bottom on page 14. Q. Okay. Borak, Slade, Russi? That's the article you're referring to? A. Borak, Slade, Russi. Q. Okay. Did you ever have you ever done any other meta-analysis?
14 15 16 17 18 19 20 21	seen patients who were part of a cohort study and, therefore, indirectly contributed.  Q. Patients as an internist?  A. Emergency physician, as an occupational physician, toxicologist, I don't know.  Q. Okay. So you you	14 15 16 17 18 19 20 21	six seven up from the bottom on page 14.  Q. Okay. Borak, Slade, Russi? That's the article you're referring to?  A. Borak, Slade, Russi. Q. Okay. Did you ever have you ever done any other meta-analysis?  A. I have never published one.
14 15 16 17 18 19 20 21	seen patients who were part of a cohort study and, therefore, indirectly contributed.  Q. Patients as an internist?  A. Emergency physician, as an occupational physician, toxicologist, I don't know.  Q. Okay. So you you wouldn't you wouldn't consider	14 15 16 17 18 19 20 21 22	six seven up from the bottom on page 14.  Q. Okay. Borak, Slade, Russi? That's the article you're referring to?  A. Borak, Slade, Russi. Q. Okay. Did you ever have you ever done any other meta-analysis?  A. I have never published one. Q. Okay. Have you in
14 15 16 17 18 19 20 21 22 23	seen patients who were part of a cohort study and, therefore, indirectly contributed.  Q. Patients as an internist?  A. Emergency physician, as an occupational physician, toxicologist, I don't know.  Q. Okay. So you you wouldn't you wouldn't consider yourself as a participant in a cohort	14 15 16 17 18 19 20 21 22 23	six seven up from the bottom on page 14.  Q. Okay. Borak, Slade, Russi? That's the article you're referring to?  A. Borak, Slade, Russi. Q. Okay. Did you ever have you ever done any other meta-analysis?  A. I have never published one. Q. Okay. Have you in this
14 15 16 17 18 19 20 21	seen patients who were part of a cohort study and, therefore, indirectly contributed.  Q. Patients as an internist?  A. Emergency physician, as an occupational physician, toxicologist, I don't know.  Q. Okay. So you you wouldn't you wouldn't consider	14 15 16 17 18 19 20 21 22	six seven up from the bottom on page 14.  Q. Okay. Borak, Slade, Russi? That's the article you're referring to?  A. Borak, Slade, Russi. Q. Okay. Did you ever have you ever done any other meta-analysis?  A. I have never published one. Q. Okay. Have you in

19 (Pages 70 to 73)

Page 74 Page 76 1 moment. We have done pooled analyses 1 That's not correct? O. 2 which were not amenable to quantitative 2 A. No that's not correct. 3 3 meta-analysis. I published two large Q. So you were -- did you do a 4 papers a year ago or so, Fields, Borak 4 causation analysis in that? 5 and Lewis involved with mercury, in which 5 A. We then looked at a second 6 we pooled large numbers of studies and 6 set of studies that had looked at workers 7 found that they could not -- they were 7 historically exposed, a long time since, 8 not amenable to quantitative 8 at very high levels, but who had not been 9 meta-analysis. We described them instead 9 actively -- not evaluated while they were 10 10 as a different type of pooling. It was actively exposed. 11 not, strictly speaking, a meta-analysis. 11 So essentially we had two But meta-analysis means about analyses. 12 12 groups of studies, one of them looking at And we were evaluating the underlying 13 13 workers -- because it's usually analyses. We just couldn't pool them in 14 14 workers -- looking at people who had been a mathematical way. 15 exposed to relatively high levels of 15 16 Q. And that study -- that 16 mercury during the time that they were article that you're now referring to, 17 17 being exposed, and exposed for a period what was the purpose of that article? 18 of time sufficient to reach relatively a 18 19 What were you trying to determine? 19 steady state. A. The question was, do the 20 20 Then we looked at groups of neurological effects of exposure to 21 21 workers who had done similar jobs, in elemental mercury persist after the end 22 2.2 some cases, but who had not been 23 of exposure. And it's actually 23 evaluated while they were being exposed, 24 24 surprisingly a question that cannot be but who were evaluated 10 or 15 or Page 75 Page 77 1 directly answered, because you would need 1 20 years later. 2 a longitudinal study. You would need to 2 And the question that we look at workers when they were being 3 3 were asking was, if tremor, for example, 4 heavily exposed for example, and then 4 is manifested in workers who are you'd need to look at them years later. 5 5 currently being exposed, and presumably 6 There were no such studies. 6 nonworkers -- I mean, just -- it's easier 7 7 in an occupational setting -- what would And so we pooled the studies 8 8 be the likelihood of seeing tremor 15 or of workers who -- 45 or 50 studies who 9 were actively being exposed to mercury. 9 20 years later? Okay. 10 10 And we looked to see what were the And because there was no 11 neurological effects that could be seen 11 longitudinal study to do that, we did what we referred to as a synthetic 12 at various levels of ongoing exposure, so 12 13 as to try to get a sense of the 13 cohort. We created a cohort by trying to dose-effect relationship acutely, that is figure out what was the relationship 14 14 15 to say, during exposure. 15 between exposure and response at the time Q. Am I correct that you, in 16 of the exposure. And then we looked to 16 17 that, the purpose of that article was 17 see if we knew what these workers --18 not -- as an example, was not to look at 18 20 years later, we knew what they had been exposed to, but we didn't know what 19 the exposure and the effect that it would 19 20 have on some possible disease? 2.0 their neurological outcome was. 21 MR. LOCKE: Objection. 21 Q. My question was -- my 22 22 question was did you do a causation BY MR. GOLOMB: Q. Is that correct? 23 23 analysis? 24 A. No. 24 A. I don't know what you mean

Jonathan Borak, M.D., DABT

	Page 78		Page 80
1	specifically by a causation analysis.	1	MR. LOCKE: Objection.
2	Q. Okay. What what do you	2	THE WITNESS: It depends
3	mean by causation analysis?	3	what you do with the cigarettes.
4	A. I don't know.	4	BY MR. GOLOMB:
5	Q. Okay. Have you ever heard	5	Q. Have you seen people smoke
6	of the term "causation analysis"?	6	cigarettes?
7	A. I've heard it, but I've	7	A. Yes.
8	never heard it defined clearly.	8	Q. All right. And so you know
9	Q. Let's just talk about, since	9	what I mean by smoking a cigarette?
10	we talk about beryllium. Does does	10	A. Yes.
11	beryllium exposure can beryllium	11	Q. Okay. You don't need any
12	exposure cause chronic beryllium disease?	12	further explanation on that?
13	MR. LOCKE: Objection.	13	MR. HEGARTY: Objection.
14	THE WITNESS: In some	14	THE WITNESS: No, no.
15	people, certain levels of exposure	15	That's clear.
16	can cause a chronic lung disease	16	BY MR. GOLOMB:
17	called chronic beryllium disease.	17	Q. And do you have an you
18	BY MR. GOLOMB:	18	have an opinion one way or the other as
19	Q. Okay. And so in that case,	19	to whether or not somebody who is smoking
20	you can make you can, in certain	20	cigarettes, whether that can cause lung
21	people, make a determination of an	21	cancer?
22	exposure causing a disease, correct?	22	MR. LOCKE: Objection.
23	A. Not directly.	23	THE WITNESS: It can,
24	MR. LOCKE: Objection.	24	dependent upon the quantity and
	Page 79		Page 81
1	BY MR. GOLOMB:	1	other factors.
2	Q. Okay. Do you think there's	2	BY MR. GOLOMB:
3	any exposure on earth that can cause a	۱ -	Q. But we so it can cause
		3	Q. Dut we so it can cause
4	disease?	4	lung cancer?
5	* *		
	disease?	4	lung cancer?
5	disease?  A. I don't understand your	4 5	lung cancer?  A. Under some circumstances.
5 6 7 8	disease?  A. I don't understand your question.	4 5 6	lung cancer?  A. Under some circumstances. Q. All right. And so there is
5 6 7 8 9	disease? A. I don't understand your question. Q. Okay. Are you familiar with	4 5 6 7	lung cancer?  A. Under some circumstances.  Q. All right. And so there is an example of an exposure, in this case,
5 6 7 8 9 10	disease?  A. I don't understand your question.  Q. Okay. Are you familiar with cigarettes?  A. I understand what they are, yes.	4 5 6 7 8	lung cancer?  A. Under some circumstances. Q. All right. And so there is an example of an exposure, in this case, whatever it is that the smoke of a cigarette does, there is a there is an example of an exposure causing a disease?
5 6 7 8 9 10 11	disease?  A. I don't understand your question.  Q. Okay. Are you familiar with cigarettes?  A. I understand what they are, yes.  Q. Okay. Are you do you	4 5 6 7 8 9 10 11	lung cancer?  A. Under some circumstances. Q. All right. And so there is an example of an exposure, in this case, whatever it is that the smoke of a cigarette does, there is a there is an example of an exposure causing a disease?  A. Yes. But the problem with
5 6 7 8 9 10 11 12	disease?  A. I don't understand your question.  Q. Okay. Are you familiar with cigarettes?  A. I understand what they are, yes.  Q. Okay. Are you do you know that cigarettes have nicotine in	4 5 6 7 8 9 10 11	lung cancer?  A. Under some circumstances. Q. All right. And so there is an example of an exposure, in this case, whatever it is that the smoke of a cigarette does, there is a there is an example of an exposure causing a disease? A. Yes. But the problem with your question is, for example, one
5 6 7 8 9 10 11 12	disease? A. I don't understand your question. Q. Okay. Are you familiar with cigarettes? A. I understand what they are, yes. Q. Okay. Are you do you know that cigarettes have nicotine in them?	4 5 6 7 8 9 10 11 12 13	lung cancer?  A. Under some circumstances. Q. All right. And so there is an example of an exposure, in this case, whatever it is that the smoke of a cigarette does, there is a there is an example of an exposure causing a disease?  A. Yes. But the problem with your question is, for example, one cigarette does not cause lung cancer.
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21 (Pages 78 to 81)

	Page 82		Page 84
1	not also.	1	MR. LOCKE: Oh yes.
2	Q. Well, is that the answer to	2	THE WITNESS: Thank you.
3	that question?	3	MR. LOCKE: The front page
4	A. I no, the answer was it	4	of Exhibit 4 is not attached to
5	depends upon the circumstances.	5	the other pages. Is that all part
6	Q. No, the answer to the	6	of Exhibit 4?
7	question, it can cause lung cancer is	7	MR. GOLOMB: It is. I
8	the answer to that question, it also can	8	don't sorry, I don't have an
9	not?	9	extra copy of that.
10	MR. LOCKE: Objection.	10	It's the the website from
11	THE WITNESS: It depends	11	Jonathan Borak & Company.
12	upon how you use it.	12	THE WITNESS: It, to be
13	BY MR. GOLOMB:	13	clear, is the website formerly.
14	Q. Okay. Well, you're the one	14	It has not been hosted or paid for
15	who just answered the question	15	by me, for years.
16	A. One cigarette	16	BY MR. GOLOMB:
17	Q. I excuse me.	17	Q. Doctor, what you have in
18	A. No, you've been stepping on	18	front of you has been marked as as
19	me, sir. One cigarette	19	Exhibit 4.
20	Q. Let me finish my question.	20	Are you familiar with that?
21	A does not cause cancer.	21	MR. LOCKE: Just just to
22	Q. Okay. And we can agree on	22	be clear so that we have a record.
23	that, and we can I think we can also	23	I want to make sure that we know
24	agree that that has absolutely nothing to	24	that it's a one, two six-page
			, , ,
	Page 83		Page 85
1	do with my question.	1	document.
2	MR. LOCKE: Objection.	2	BY MR. GOLOMB:
3	BY MR. GOLOMB:	3	Q. Okay. And so take take a
4	Q. Can we agree on that?	4	look at this six-page document. We'll
5	MR. LOCKE: Objection.	5	try to describe what's there for the
6	THE WITNESS: No, sir. Read	6	record.
7	back your question.	7	The the first page is the
8	BY MR. GOLOMB:	8	homepage of of the website; is that
9	Q. You heard me say one	9	correct?
10	cigarette?	10	A. Of the former website, yes.
11	A. Read back the question, sir.	11	Q. Okay. Well, we'll talk
12	Q. We we're not going to	12	about that. And then the the
13	waste the time of of going back to	13	remaining pages, which are marked in the
14	read the question. The question was	14	lower right-hand corner as Pages 1
15	pretty clear.	15	through 5.
16	Let's look at Exhibit 3.	16	Do you see that?
17	No, I'm sorry, let's go to 4. We'll come	17	MR. LOCKE: Not on our copy.
18	back to 3.	18	BY MR. GOLOMB:
19	(Document marked for	19	Q. Okay. It they they
20	identification as Exhibit	20	it is a listing and a brief description
21	Borak-4.)	21	of "recent peer-reviewed scientific
22	THE WITNESS: Will you give	22	reports."
23 24	me enough time to fill my coffee	23 24	Do you see that?
1 4 T	cup?	44	A. That's what it says.

22 (Pages 82 to 85)

	Page 86		Page 88
1	Q. Okay. Now	1	A. It was an administrative law
2	A. Doesn't say recent. It says	2	case.
3	peer-reviewed oh, it does, it does say	3	Q. And and who were you
4	recent, sorry.	4	providing consulting services for?
5	Q. So you mentioned that this	5	A. I was providing services to
6	is something that you formerly hosted.	6	a law firm. And they were providing
7	What why don't you let's talk about	7	services to a mining company. And they
8	Jonathan Borak & Company, first of all.	8	were being adjudicated by the Mine Safety
9	When when was Jonathan	9	and Health Administration.
10	Borak & Company started?	10	Q. And was the mining company
11	A. 1988, something like that.	11	the the defendant in that particular
12	Q. And in 1988, when you	12	litigation?
13	started Jonathan Borak & Company, what	13	A. I think that's right.
14	did it do?	14	Q. All right. In your in
15	A. It provided consulting	15	your services over the years as a
16	services.	16	consultant in litigation first of all,
17	Q. To whom?	17	approximately how many times have you
18	A. My first clients were	18	done that?
19	companies that made chemicals and wanted	19	A. I don't know the number, but
20	to develop informational materials to	20	I very rarely have an opportunity to be
21	inform first responders in the event of	21	deposed or to testify. A few times every
22	accidents.	22	couple of years.
23	Q. And at some point did	23	Q. Okay. For and a few
24	Jonathan Borak & Company become involved	24	times every couple years for the last
	Page 87		Page 89
1	in in litigation as a consultant?	1	20 years or so?
2	A. At at some point, yes.	2	A. I'm sure that there are
3	Q. When?	3	large periods of time when I've done
4	A. I don't recall specifically.	4	none. But I don't have that in front of
5	Q. Can you tell me generally	5	me.
6	when it was?	6	Q. Okay. So have you served as
7	A. After 1988.	7	a consultant in litigation more or less
8	Q. And was it before or after	8	than 20 times?
9	2000?	9	A. Let me step back and say
10	A. I think it was probably	10	that my company often works for lawyers
11	before.	11	in terms of regulatory issues and
12	Q. And when you first began	12	enforcement issues, and in contract
13	in in litigation services as a	13	issues and in safety issues. It's often
14	consultant, give me some examples of what	14	through a lawyer or their outside law
15	type of litigation consulting you were	15	firm that I'm approached. I don't know
16 17	doing.	16	how many of those have ended up in
17	A. One of the first was whether	17	litigation and I certainly have not been
	mercury was a hazard and a risk in people	18	involved in the litigation the majority
18		19	of those.
19	if they were exposed in a dining room.	1	I harry 1 1 1
19 20	Q. In a?	20	I have lawyers who approach
19 20 21	<ul><li>Q. In a?</li><li>A. Dining room.</li></ul>	20 21	me and ask me to provide literature
19 20 21 22	<ul><li>Q. In a?</li><li>A. Dining room.</li><li>Q. Okay. And what, just very</li></ul>	20 21 22	me and ask me to provide literature reviews. And I will do that and have
19 20 21	<ul><li>Q. In a?</li><li>A. Dining room.</li></ul>	20 21	me and ask me to provide literature

	Page 90		Page 92
1	I assume that those are used	1	records. And I would review them and
2	for people who have litigation concerns,	2	tell him or his client whether there was
3	but I've not been asked to testify in	3	or was not an error that had been
4	those situations.	4	committed based upon my judgment. And it
5	Q. And out of all the times you	5	represented both sides, defense and
6	have served in some capacity as a	6	plaintiffs, but more often plaintiffs.
7	consultant in in litigation, how many	7	Q. Okay. And so those were in
8	of those times have you served on behalf	8	medical malpractice cases?
9	of a plaintiff in a in a in	9	A. And and personal injury.
10	litigation?	10	Q. Okay. When when you say
11	A. In the last years it's been	11	personal injury, what do you mean?
12	more commonly defense. In the early	12	A. Automobile cases where the
13	years of my career it was more commonly	13	question was not whether the doctor did
14	plaintiff.	14	something wrong.
15	Q. Okay. And when you say the	15	Q. It was a question of what
16	early years of your career, what what	16	the injury was?
17	years are you talking about?	17	A. Yes.
18	A. I began doing legal	18	Q. And what effect it had on
19	consulting when I was running a trauma	19	the the individual who was injured?
20	center in an emergency room.	20	A. Stuff like that.
21	Q. That was back in the '70s?	21	Q. Okay. And that was was
22	A. That's correct.	22	that as a treating physician?
23	Q. And	23	A. Was I?
24	A. More no, no. In the	24	Q. Yeah.
	Page 91		Page 93
_			
1	'80s.	1	A. No.
1 2	'80s. Q. Okay. And in those cases,	1 2	
	Q. Okay. And in those cases,		Q. Okay. So and
2		2	Q. Okay. So and approximately how many times were you
2	Q. Okay. And in those cases, when you say that you were providing	2 3	Q. Okay. So and
2 3 4	Q. Okay. And in those cases, when you say that you were providing litigation consulting services on behalf of plaintiffs, was that as a result of	2 3 4	Q. Okay. So and approximately how many times were you related were you involved in in
2 3 4 5	Q. Okay. And in those cases, when you say that you were providing litigation consulting services on behalf	2 3 4 5	Q. Okay. So and approximately how many times were you related were you involved in in that kind of litigation?
2 3 4 5 6	Q. Okay. And in those cases, when you say that you were providing litigation consulting services on behalf of plaintiffs, was that as a result of your having treated those patients in the	2 3 4 5 6	Q. Okay. So and approximately how many times were you related were you involved in in that kind of litigation?  A. I I involved in the review, or involved in deposition and
2 3 4 5 6 7	Q. Okay. And in those cases, when you say that you were providing litigation consulting services on behalf of plaintiffs, was that as a result of your having treated those patients in the emergency room?	2 3 4 5 6 7	Q. Okay. So and approximately how many times were you related were you involved in in that kind of litigation?  A. I I involved in the
2 3 4 5 6 7 8	Q. Okay. And in those cases, when you say that you were providing litigation consulting services on behalf of plaintiffs, was that as a result of your having treated those patients in the emergency room?  A. No.	2 3 4 5 6 7 8	Q. Okay. So and approximately how many times were you related were you involved in in that kind of litigation?  A. I I involved in the review, or involved in deposition and testimony?
2 3 4 5 6 7 8 9	Q. Okay. And in those cases, when you say that you were providing litigation consulting services on behalf of plaintiffs, was that as a result of your having treated those patients in the emergency room?  A. No.  Q. So give me some examples of	2 3 4 5 6 7 8 9	Q. Okay. So and approximately how many times were you related were you involved in in that kind of litigation?  A. I I involved in the review, or involved in deposition and testimony?  Q. Either.
2 3 4 5 6 7 8 9	Q. Okay. And in those cases, when you say that you were providing litigation consulting services on behalf of plaintiffs, was that as a result of your having treated those patients in the emergency room?  A. No.  Q. So give me some examples of what you're talking about.	2 3 4 5 6 7 8 9	Q. Okay. So and approximately how many times were you related were you involved in in that kind of litigation?  A. I I involved in the review, or involved in deposition and testimony?  Q. Either.  A. Either.
2 3 4 5 6 7 8 9 10	Q. Okay. And in those cases, when you say that you were providing litigation consulting services on behalf of plaintiffs, was that as a result of your having treated those patients in the emergency room?  A. No.  Q. So give me some examples of what you're talking about.  A. I was approached by a man in	2 3 4 5 6 7 8 9 10 11	Q. Okay. So and approximately how many times were you related were you involved in in that kind of litigation?  A. I I involved in the review, or involved in deposition and testimony?  Q. Either.  A. Either.  Q. Yeah.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. Okay. And in those cases, when you say that you were providing litigation consulting services on behalf of plaintiffs, was that as a result of your having treated those patients in the emergency room?  A. No. Q. So give me some examples of what you're talking about. A. I was approached by a man in New York who did what this gentleman with the video camera does, and he was providing that service to my parents who had a business that did what what this lady here with the stenography does. And	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. Okay. So and approximately how many times were you related were you involved in in that kind of litigation?  A. I I involved in the review, or involved in deposition and testimony?  Q. Either.  A. Either.  Q. Yeah.  A. I would say that there were a bunch of things that I reviewed and rarely in deposition or testimony.  Q. Okay. And the last time you did that was in the '80s?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. Okay. And in those cases, when you say that you were providing litigation consulting services on behalf of plaintiffs, was that as a result of your having treated those patients in the emergency room?  A. No.  Q. So give me some examples of what you're talking about.  A. I was approached by a man in New York who did what this gentleman with the video camera does, and he was providing that service to my parents who had a business that did what what this lady here with the stenography does. And my father was boasting of his son the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. Okay. So and approximately how many times were you related were you involved in in that kind of litigation?  A. I I involved in the review, or involved in deposition and testimony?  Q. Either.  A. Either.  Q. Yeah.  A. I would say that there were a bunch of things that I reviewed and rarely in deposition or testimony.  Q. Okay. And the last time you did that was in the '80s?  A. That I worked for this
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Okay. And in those cases, when you say that you were providing litigation consulting services on behalf of plaintiffs, was that as a result of your having treated those patients in the emergency room?  A. No.  Q. So give me some examples of what you're talking about.  A. I was approached by a man in New York who did what this gentleman with the video camera does, and he was providing that service to my parents who had a business that did what what this lady here with the stenography does. And my father was boasting of his son the doctor, and the guy with the camera said	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Okay. So and approximately how many times were you related were you involved in in that kind of litigation?  A. I I involved in the review, or involved in deposition and testimony?  Q. Either.  A. Either.  Q. Yeah.  A. I would say that there were a bunch of things that I reviewed and rarely in deposition or testimony.  Q. Okay. And the last time you did that was in the '80s?  A. That I worked for this fellow? Yes, back in the '80s.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Okay. And in those cases, when you say that you were providing litigation consulting services on behalf of plaintiffs, was that as a result of your having treated those patients in the emergency room?  A. No.  Q. So give me some examples of what you're talking about.  A. I was approached by a man in New York who did what this gentleman with the video camera does, and he was providing that service to my parents who had a business that did what what this lady here with the stenography does. And my father was boasting of his son the doctor, and the guy with the camera said I have a company that provides this	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Okay. So and approximately how many times were you related were you involved in in that kind of litigation?  A. I I involved in the review, or involved in deposition and testimony?  Q. Either.  A. Either.  Q. Yeah.  A. I would say that there were a bunch of things that I reviewed and rarely in deposition or testimony.  Q. Okay. And the last time you did that was in the '80s?  A. That I worked for this fellow? Yes, back in the '80s.  Q. No. When was the last time you did any of this consulting work that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Okay. And in those cases, when you say that you were providing litigation consulting services on behalf of plaintiffs, was that as a result of your having treated those patients in the emergency room?  A. No. Q. So give me some examples of what you're talking about. A. I was approached by a man in New York who did what this gentleman with the video camera does, and he was providing that service to my parents who had a business that did what what this lady here with the stenography does. And my father was boasting of his son the doctor, and the guy with the camera said I have a company that provides this service, we would love to talk to your	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Okay. So and approximately how many times were you related were you involved in in that kind of litigation?  A. I I involved in the review, or involved in deposition and testimony?  Q. Either.  A. Either.  Q. Yeah.  A. I would say that there were a bunch of things that I reviewed and rarely in deposition or testimony.  Q. Okay. And the last time you did that was in the '80s?  A. That I worked for this fellow? Yes, back in the '80s.  Q. No. When was the last time
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Okay. And in those cases, when you say that you were providing litigation consulting services on behalf of plaintiffs, was that as a result of your having treated those patients in the emergency room?  A. No. Q. So give me some examples of what you're talking about. A. I was approached by a man in New York who did what this gentleman with the video camera does, and he was providing that service to my parents who had a business that did what what this lady here with the stenography does. And my father was boasting of his son the doctor, and the guy with the camera said I have a company that provides this service, we would love to talk to your son.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Okay. So and approximately how many times were you related were you involved in in that kind of litigation?  A. I I involved in the review, or involved in deposition and testimony?  Q. Either.  A. Either.  Q. Yeah.  A. I would say that there were a bunch of things that I reviewed and rarely in deposition or testimony.  Q. Okay. And the last time you did that was in the '80s?  A. That I worked for this fellow? Yes, back in the '80s.  Q. No. When was the last time you did any of this consulting work that we're now talking about on behalf of

24 (Pages 90 to 93)

	Page 94		Page 96
1	THE WITNESS: I was deposed	1	have a list of cases in the past four
2	in January, in a question of	2	years.
3	whether an inmate in a New York	3	Q. And the first case on that
4	State prison was harmed as a	4	list, is Cabot Corporation versus Arrow,
5	result of the actions of the	5	correct?
6	guards. And I was representing	6	A. Correct.
7	the plaintiff.	7	Q. And who were you consulting
8	BY MR. GOLOMB:	8	on behalf of in that case?
9	Q. In January of 2019?	9	A. In that case I was
10	A. Yes.	10	consulting on behalf of Arrow.
11	Q. And when was the last time	11	Q. And what does Arrow do?
12	that you consulted on behalf of a	12	A. They make respirators.
13	plaintiff before that?	13	Q. And Cabot Corporation, the
14	A. That's the last time that I	14	plaintiff in that case, is a beryllium
15	testified. I see documents in a variety	15	manufacturer that was formerly in
16	of contexts in which there is probably a	16	Reading, Pennsylvania, correct?
17	plaintiff, but I've never been	17	A. They have not been
18	representing them in a courtroom.	18	associated with beryllium in probably
19	Q. Let's take a look at	19	30 years. But your memory is very good.
20	Exhibit 6.	20	Q. And just very generally,
21	(Document marked for	21	what was that case about?
22	identification as Exhibit	22	A. Cabot sold a subsidiary to
23	Borak-6.)	23	Arrow. The subsidiary manufactured
24	BY MR. GOLOMB:	24	respirators.
	Page 95		
1		1	
1	Q. Which is a list of your	1	As part of the negotiated
2	deposition and trial testimony that you	2	transaction, Cabot retained liability for
3	submitted or that Mr. Locke submitted to	3	future claims resulting from silica or
4	us as part of the production prior to	4	asbestos.
5	this deposition. And we referred to this	5 6	And Arrow accepted liability
6 7	list earlier today, correct?	7	for future claims, including historical
	A. Yes.		exposures, but future claims on a
8 9	Q. And it lists nine separate	8 9	couple kinds of things, for all other
	cases, correct?		exposures.
10	A. Correct.	10 11	One day, they discovered
11 12	Q. And in eight of those cases,	12	they had a large number Arrow
13	you testified via deposition?	13	discovered there were a large number of
	A. Yes. That's correct.	14	complainants with coal workers'
	Q. And one of those cases you		pneumoconiosis. I don't know if they had
14	tagtified at trial agreest?		
15	testified at trial, correct?	15 16	coal workers' pneumoconiosis. I did not
15 16	A. Yes. That's correct.	16	deal with the medical records. I was
15 16 17	<ul><li>A. Yes. That's correct.</li><li>Q. Now, have you ever given a</li></ul>	16 17	deal with the medical records. I was asked to evaluate a simple question, to
15 16 17 18	<ul><li>A. Yes. That's correct.</li><li>Q. Now, have you ever given a deposition as a consultant before June 4,</li></ul>	16 17 18	deal with the medical records. I was asked to evaluate a simple question, to ask can you get coal workers'
15 16 17 18 19	A. Yes. That's correct. Q. Now, have you ever given a deposition as a consultant before June 4, 2015?	16 17 18 19	deal with the medical records. I was asked to evaluate a simple question, to ask can you get coal workers' pneumoconiosis in the absence of silica.
15 16 17 18 19 20	A. Yes. That's correct. Q. Now, have you ever given a deposition as a consultant before June 4, 2015? A. Oh, yes.	16 17 18 19 20	deal with the medical records. I was asked to evaluate a simple question, to ask can you get coal workers' pneumoconiosis in the absence of silica.  Q. Now, you were not acting as
15 16 17 18 19 20 21	A. Yes. That's correct. Q. Now, have you ever given a deposition as a consultant before June 4, 2015? A. Oh, yes. Q. Do you know why this list is	16 17 18 19 20 21	deal with the medical records. I was asked to evaluate a simple question, to ask can you get coal workers' pneumoconiosis in the absence of silica.  Q. Now, you were not acting as an epidemiologist in that case, correct?
15 16 17 18 19 20 21 22	A. Yes. That's correct. Q. Now, have you ever given a deposition as a consultant before June 4, 2015? A. Oh, yes. Q. Do you know why this list is limited to cases on or after June 4,	16 17 18 19 20 21 22	deal with the medical records. I was asked to evaluate a simple question, to ask can you get coal workers' pneumoconiosis in the absence of silica.  Q. Now, you were not acting as an epidemiologist in that case, correct?  A. I was looking at old reports
15 16 17 18 19 20 21	A. Yes. That's correct. Q. Now, have you ever given a deposition as a consultant before June 4, 2015? A. Oh, yes. Q. Do you know why this list is	16 17 18 19 20 21	deal with the medical records. I was asked to evaluate a simple question, to ask can you get coal workers' pneumoconiosis in the absence of silica.  Q. Now, you were not acting as an epidemiologist in that case, correct?

25 (Pages 94 to 97)

	Page 98		Page 100
1	skills.	1	testimony in that case?
2	Q. And did you do a causation	2	A. I do.
3	analysis in that case?	3	Q. And do you recall, as part
4	A. I don't know what you mean	4	of that testimony that you gave, do you
5	by causation analysis.	5	recall the cross-examination in that
6	Q. You testified four times in	6	case?
7	the Bair Hugger litigation?	7	A. I guess, yes.
8	A. Yes.	8	Q. And where was that case
9	Q. What was your role in the	9	tried?
10	Bair Hugger litigation?	10	A. Minneapolis.
11	A. If you mean was it on the	11	Q. And do you recall the result
12	defense, yes.	12	in that case?
13	Q. No. What did you do in the	13	A. Yes.
14	case?	14	Q. What was the result?
15	A. Do you want to know what the	15	A. A defense verdict.
16	case is about?	16	Q. And the you've given
17	Q. I know what the case is	17	testimony via deposition in three other
18	about. What did you do?	18	Bair Hugger cases, correct?
19	A. I opined that the evidence	19	A. Actually there are two Bair
20	did not indicate that Bair Hugger caused	20	Hugger cases, and one of them had three
21	infections.	21	hearings.
22	Q. And what did you do to come	22	Q. Okay. When you say three
23	up with that conclusion?	23	so there's four cases listed here.
24	A. I read a very large amount	24	A. Yeah, four dates.
	Page 99		Page 101
1	of the literature, and I evaluated some	1	Q. Right. So three by
2	of the original work that had been done	2	deposition, and one trial?
3	at a hospital called Wambeck, the only	3	A. Yes.
4	report that suggests that there is an	4	Q. All right. So when you say
5	association, which was a study which had	5	there were two cases, what do you mean?
6	a number of important design flaws.	6	A. Well, the deposition held on
7	And I reevaluated that study	7	February 15th was a two-hour deposition
8	in part using a reanalysis that was	8	related to an appeal of a court
9	provided on the statistics by the	9	determination that was related to the
10	emeritus chair of biostatistics at Yale	10	first of those cases.
11	Public Health.	11	Q. Now, in reaching your
12	Q. And you your according	12	conclusions in that case, did you do a
13	to Exhibit 6, you testified at trial on	13	meta-analysis?
14	May 23rd and May 24th of 2018, correct?	14	A. I don't think there were any
	A 37 41 41 4	15	data which would be amonable to a
15	A. Yes, that's correct.		data which would be amenable to a
15 16	Q. And who was the lawyer that	16	meta-analysis.
15 16 17	Q. And who was the lawyer that retained your services in that case?	16 17	meta-analysis. Q. So the answer is no?
15 16 17 18	Q. And who was the lawyer that retained your services in that case? A. It was a firm called	16 17 18	meta-analysis. Q. So the answer is no? A. No.
15 16 17 18 19	Q. And who was the lawyer that retained your services in that case? A. It was a firm called Blackwell Burke.	16 17 18 19	meta-analysis. Q. So the answer is no? A. No. Q. Did you do a case-control
15 16 17 18 19 20	Q. And who was the lawyer that retained your services in that case? A. It was a firm called Blackwell Burke. Q. And do you recall who the	16 17 18 19 20	meta-analysis. Q. So the answer is no? A. No. Q. Did you do a case-control study?
15 16 17 18 19 20 21	Q. And who was the lawyer that retained your services in that case? A. It was a firm called Blackwell Burke. Q. And do you recall who the lawyer was representing the plaintiff in	16 17 18 19 20 21	meta-analysis. Q. So the answer is no? A. No. Q. Did you do a case-control study? A. No.
15 16 17 18 19 20 21	Q. And who was the lawyer that retained your services in that case? A. It was a firm called Blackwell Burke. Q. And do you recall who the lawyer was representing the plaintiff in that case?	16 17 18 19 20 21 22	meta-analysis. Q. So the answer is no? A. No. Q. Did you do a case-control study? A. No. Q. Did you do you know who
15 16 17 18 19 20 21	Q. And who was the lawyer that retained your services in that case? A. It was a firm called Blackwell Burke. Q. And do you recall who the lawyer was representing the plaintiff in	16 17 18 19 20 21	meta-analysis. Q. So the answer is no? A. No. Q. Did you do a case-control study? A. No.

26 (Pages 98 to 101)

			7
	Page 102		Page 104
1	Q. Did you do a Bradford Hill	1	in any beryllium exposure cases?
2	analysis?	2	A. Yes, I have at some point.
3	A. I did a critique of a	3	Q. How many times?
4	Bradford Hill analysis in one of these.	4	A. I think I was in court once.
5	Q. Okay. Do you understand the	5	I may have been deposed. I don't recall.
6	difference between doing your own	6	Q. Okay. Have you testified at
7	Bradford Hill analysis and commenting on	7	deposition in a beryllium exposure case?
8	somebody else's Bradford Hill analysis?	8	A. That's what I'm trying to
9	MR. LOCKE: Objection.	9	recall. I I would imagine I was in
10	THE WITNESS: Not if you do	10	court in a case in California. I don't
11	the critique properly. You have	11	believe no, I probably was deposed
12	to go through all of the criteria	12	there as well. And that was years ago.
13	and all of the data. It was a	13	I do not know that I have
14	response to something.	14	been deposed in other cases. It's
15	BY MR. GOLOMB:	15	possible.
16	Q. Okay. And is that what you	16	-
17	did in the Bair Hugger cases?	17	Q. Okay. You I want to be clear that when we when we talk about
18	A. In one.	18	
19		19	testimony, there there can be
20	Q. In one. Which one of these	20	deposition testimony outside of the
	four did you do that in?	20	courtroom and there can be trial
21 22	A. In the in the first one		testimony inside of the courtroom.
	a which is the one that has come back	22	You understand that, right?
23	again, where there was a question of	23	A. I do.
24	general causation, there was a Bradford	24	Q. Okay. And it and in some
	Page 103		Page 105
1	-	1	
1 2	Hill argument put forth, and I responded	1 2	cases you may have been deposed and not
2	Hill argument put forth, and I responded to that.	2	cases you may have been deposed and not testified at trial, right?
2	Hill argument put forth, and I responded to that.  Q. Okay. And just to be clear,		cases you may have been deposed and not testified at trial, right?  A. Yes, yes, yes, yes, yes.
2	Hill argument put forth, and I responded to that.  Q. Okay. And just to be clear, in this case that brings us here today,	2 3 4	cases you may have been deposed and not testified at trial, right?  A. Yes, yes, yes, yes.  Q. In other cases there may be
2	Hill argument put forth, and I responded to that.  Q. Okay. And just to be clear, in this case that brings us here today, you did not do a Bradford Hill analysis,	2 3 4 5	cases you may have been deposed and not testified at trial, right?  A. Yes, yes, yes, yes. Q. In other cases there may be a scenario where you never gave a
2	Hill argument put forth, and I responded to that.  Q. Okay. And just to be clear, in this case that brings us here today, you did not do a Bradford Hill analysis, correct?	2 3 4	cases you may have been deposed and not testified at trial, right?  A. Yes, yes, yes, yes. Q. In other cases there may be a scenario where you never gave a deposition, but testified at trial?
2 3 4 5 6 7	Hill argument put forth, and I responded to that.  Q. Okay. And just to be clear, in this case that brings us here today, you did not do a Bradford Hill analysis, correct?  A. Yes. I did not do a	2 3 4 5 6 7	cases you may have been deposed and not testified at trial, right?  A. Yes, yes, yes, yes, yes. Q. In other cases there may be a scenario where you never gave a deposition, but testified at trial?  A. Yes, that's correct.
2	Hill argument put forth, and I responded to that.  Q. Okay. And just to be clear, in this case that brings us here today, you did not do a Bradford Hill analysis, correct?  A. Yes. I did not do a Bradford Hill analysis.	2 3 4 5 6	cases you may have been deposed and not testified at trial, right?  A. Yes, yes, yes, yes, yes. Q. In other cases there may be a scenario where you never gave a deposition, but testified at trial?  A. Yes, that's correct. Q. All right. I mean there's a
2 3 4 5 6 7 8 9	Hill argument put forth, and I responded to that.  Q. Okay. And just to be clear, in this case that brings us here today, you did not do a Bradford Hill analysis, correct?  A. Yes. I did not do a Bradford Hill analysis.  Q. And you weren't asked to do	2 3 4 5 6 7 8 9	cases you may have been deposed and not testified at trial, right?  A. Yes, yes, yes, yes, yes. Q. In other cases there may be a scenario where you never gave a deposition, but testified at trial? A. Yes, that's correct. Q. All right. I mean there's a number of states that well, let me
2 3 4 5 6 7 8	Hill argument put forth, and I responded to that.  Q. Okay. And just to be clear, in this case that brings us here today, you did not do a Bradford Hill analysis, correct?  A. Yes. I did not do a Bradford Hill analysis.  Q. And you weren't asked to do a Bradford Hill analysis?	2 3 4 5 6 7 8	cases you may have been deposed and not testified at trial, right?  A. Yes, yes, yes, yes, yes. Q. In other cases there may be a scenario where you never gave a deposition, but testified at trial?  A. Yes, that's correct. Q. All right. I mean there's a number of states that well, let me just
2 3 4 5 6 7 8 9 10 11	Hill argument put forth, and I responded to that.  Q. Okay. And just to be clear, in this case that brings us here today, you did not do a Bradford Hill analysis, correct?  A. Yes. I did not do a Bradford Hill analysis.  Q. And you weren't asked to do a Bradford Hill analysis?  A. That's correct.	2 3 4 5 6 7 8 9	cases you may have been deposed and not testified at trial, right?  A. Yes, yes, yes, yes, yes. Q. In other cases there may be a scenario where you never gave a deposition, but testified at trial?  A. Yes, that's correct. Q. All right. I mean there's a number of states that well, let me just  A. I I'm sorry. My mouth
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2 3 4 5 6 7 8 9 10 11 12 13	Hill argument put forth, and I responded to that.  Q. Okay. And just to be clear, in this case that brings us here today, you did not do a Bradford Hill analysis, correct?  A. Yes. I did not do a Bradford Hill analysis.  Q. And you weren't asked to do a Bradford Hill analysis?  A. That's correct.  Q. And you did not while you commented on, my words, the state of the	2 3 4 5 6 7 8 9 10 11	cases you may have been deposed and not testified at trial, right?  A. Yes, yes, yes, yes, yes.  Q. In other cases there may be a scenario where you never gave a deposition, but testified at trial?  A. Yes, that's correct.  Q. All right. I mean there's a number of states that well, let me just  A. I I'm sorry. My mouth opens because I'm just thinking back to things in my history. I'm not trying to
2 3 4 5 6 7 8 9 10 11 12 13 14	Hill argument put forth, and I responded to that.  Q. Okay. And just to be clear, in this case that brings us here today, you did not do a Bradford Hill analysis, correct?  A. Yes. I did not do a Bradford Hill analysis.  Q. And you weren't asked to do a Bradford Hill analysis?  A. That's correct.  Q. And you did not while you commented on, my words, the state of the science, you were not asked nor did you	2 3 4 5 6 7 8 9 10 11 12 13	cases you may have been deposed and not testified at trial, right?  A. Yes, yes, yes, yes, yes. Q. In other cases there may be a scenario where you never gave a deposition, but testified at trial? A. Yes, that's correct. Q. All right. I mean there's a number of states that well, let me just A. I I'm sorry. My mouth opens because I'm just thinking back to things in my history. I'm not trying to contradict you. I'm also trying to
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Hill argument put forth, and I responded to that.  Q. Okay. And just to be clear, in this case that brings us here today, you did not do a Bradford Hill analysis, correct?  A. Yes. I did not do a Bradford Hill analysis.  Q. And you weren't asked to do a Bradford Hill analysis?  A. That's correct.  Q. And you did not while you commented on, my words, the state of the science, you were not asked nor did you give an opinion on whether or not talc	2 3 4 5 6 7 8 9 10 11 12 13	cases you may have been deposed and not testified at trial, right?  A. Yes, yes, yes, yes, yes. Q. In other cases there may be a scenario where you never gave a deposition, but testified at trial? A. Yes, that's correct. Q. All right. I mean there's a number of states that well, let me just  A. I I'm sorry. My mouth opens because I'm just thinking back to things in my history. I'm not trying to contradict you. I'm also trying to remember whether you are the attorney who
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Hill argument put forth, and I responded to that.  Q. Okay. And just to be clear, in this case that brings us here today, you did not do a Bradford Hill analysis, correct?  A. Yes. I did not do a Bradford Hill analysis.  Q. And you weren't asked to do a Bradford Hill analysis?  A. That's correct.  Q. And you did not while you commented on, my words, the state of the science, you were not asked nor did you give an opinion on whether or not talc can cause ovarian cancer, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15	cases you may have been deposed and not testified at trial, right?  A. Yes, yes, yes, yes, yes. Q. In other cases there may be a scenario where you never gave a deposition, but testified at trial?  A. Yes, that's correct. Q. All right. I mean there's a number of states that well, let me just  A. I I'm sorry. My mouth opens because I'm just thinking back to things in my history. I'm not trying to contradict you. I'm also trying to remember whether you are the attorney who worked with Honik and whom I may have
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	Page 106		Page 108
1	A. At least.	1	That's the the wonderful giving
2	Q. And there are other cases	2	generosity of the internet.
3	where you may have testified both at	3	Q. Well, this is
4	trial and at via deposition?	4	A. But I stand by everything
5	A. Well, I'm not sure what you	5	that it says there in 2008. I probably
6	mean by other cases.	6	wrote it all.
7	I I may have been deposed	7	Q. Well, what so why did you
8	in those two cases.	8	take out down the website, or why did
9	Q. Right. And here	9	you stop hosting the website?
10	A. And I may have had other	10	A. I stopped hosting it because
11	depositions.	11	it became complicated. It became
12	Q. And who were you acting as a	12	complicated because the person who
13	consultant for in those cases?	13	you this is a bunch of irrelevancies.
14	A. Some cases, probably	14	The person who developed
15	Materion, then known as Brush Wellman.	15	this website was the webmeister at the
16	In the case where I first had the	16	School of Forestry and Environmental
17	opportunity to meet you, I was probably	17	Studies at Yale.
18	working for an airplane maker. I don't	18	Q. I think they call them
19	remember whom.	19	webmaster.
20	Q. Lockheed?	20	A. Okay. And he retained
21	A. That sounds right. Maybe.	21	the the original software. And I had
22	I may have even been deposed	22	to go through him for updates and so
23	once, I don't know, involving a an	23	forth. And then I retained for my
24	aluminum maker. It may have been Alco, I	24	company somebody else to manage my he
	Page 107		Page 109
1	don't remember.	1	Page 109 didn't manage my IT. I had somebody I
2		1 2	
	don't remember.		didn't manage my IT. I had somebody I
2	don't remember. Q. But so let's go back to	2	didn't manage my IT. I had somebody I hired to do my IT work. He was sent I
2 3 4 5	don't remember.  Q. But so let's go back to Exhibit 4 which is the Jonathan Borak &	2 3	didn't manage my IT. I had somebody I hired to do my IT work. He was sent I understand he was sent the master
2 3 4 5 6	don't remember.  Q. But so let's go back to Exhibit 4 which is the Jonathan Borak & Company website. And let's look at	2 3 4	didn't manage my IT. I had somebody I hired to do my IT work. He was sent I understand he was sent the master software and he lost it, no kidding.
2 3 4 5	don't remember.  Q. But so let's go back to Exhibit 4 which is the Jonathan Borak & Company website. And let's look at Pages 1 through 5 of the recent peer-reviewed scientific studies. First of all, let me ask you	2 3 4 5 6 7	didn't manage my IT. I had somebody I hired to do my IT work. He was sent I understand he was sent the master software and he lost it, no kidding.  And so it became necessary for me either one day to totally reconstruct the website or throw it away,
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	Page 110		Page 112
1	this, my impression at least, correct me	1	articles during that same period of time
2	if I'm wrong, this was never meant to be	2	off the website?
3	an all-inclusive list, right?	3	A. I think that I was meaning
4	MR. HEGARTY: Objection.	4	to indicate something about the scope of
5	THE WITNESS: It it was	5	our interests in the office, which is why
6	not meant to be an all-inclusive	6	I've got a couple of these on beryllium
7	list. There was a more recent	7	and I've got one on hearing loss. And
8	list on the Yale website.	8	I've got one on diesel. And I've got one
9	BY MR. GOLOMB:	9	on seafood arsenic, and all of these were
10	Q. And and is that meant to	10	topics that were being actively
11	be an all-inclusive list?	11	considered in my office.
12	A. No.	12	I also included some of the
13	Q. All right. And so when	13	people who worked for me, just to show
14	looking at the Jonathan Borak site of	14	the sorts of things that they had
15	recent peer-reviewed scientific reports,	15	interests in.
16	were were you the one who selected	16	And and this was just
17	what when the website was being	17	meant to be representative. It was not
18	hosted, were you the one who was deciding	18	meant to be inclusive. And I don't know
19	what to put up?	19	that it has a great subliminal message,
20	A. I certainly was involved in	20	but it may have. I mean, I believe in
21	the decision.	21	Freud.
22	Q. Okay. Because you you	22	Q. And and most of most
23	didn't want to put up whatever the number	23	of these articles are related to
24	is, 100, 150, published articles that	24	toxicology and occupational and
	- 111		
	Page 111		Page 113
1	you've done over the last 40 years,	1	environmental health, correct?
2		1 2	environmental health, correct?  A. Well, the first one is about
2	you've done over the last 40 years, correct?  A. It it was not my goal.	l	environmental health, correct?  A. Well, the first one is about toxicology and risk assessment.
2 3 4	you've done over the last 40 years, correct?  A. It it was not my goal. Q. Right. You wanted to put up	2 3 4	environmental health, correct?  A. Well, the first one is about toxicology and risk assessment.  The second one had to do
2 3 4 5	you've done over the last 40 years, correct?  A. It it was not my goal. Q. Right. You wanted to put up articles that that you were, number	2 3 4 5	environmental health, correct?  A. Well, the first one is about toxicology and risk assessment.  The second one had to do with toxicology and environmental health.
2 3 4 5 6	you've done over the last 40 years, correct?  A. It it was not my goal. Q. Right. You wanted to put up articles that that you were, number one, proud of, and number two, that	2 3 4 5 6	environmental health, correct?  A. Well, the first one is about toxicology and risk assessment.  The second one had to do with toxicology and environmental health.  The third one had to do with
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	Page 114		Page 116
1	THE WITNESS: It's a	1	to you.
2	complicated answer to a simple	2	BY MR. GOLOMB:
3	question. I apologize.	3	Q. I'm not saying you said
4	I have been teaching	4	anything. I'm asking you a question.
5	Bradford Hill and writing about	5	A. Ask it again, sir.
6	Bradford Hill. And it permeates	6	MR. GOLOMB: Can you read it
7	my my professional thinking.	7	back, please.
8	It is hard for me to review	8	(Whereupon, the court
9	the scientific literature without	9	reporter read back the requested
10	a little piece of Bradford Hill	10	portion of testimony.)
11	back there somewhere in my	11	MR. LOCKE: Objection.
12	occipital. But I don't normally	12	THE WITNESS: The literature
13	sit down and say, one, two, three,	13	in part, but yes. Generically
14	four, five, six, seven, eight,	14	that's what I did.
15	nine, and try to match them up in	15	BY MR. GOLOMB:
16	that sense.	16	Q. Okay. Let's take a look at
17	So the answer is Bradford	17	Exhibit 5, which is the Yale website.
18	Hill lives within me, but I rarely	18	(Document marked for
19	put forth that kind of a formal,	19	identification as Exhibit
20	one through nine Bradford Hill	20	Borak-5.)
21	analysis. Does that is that an	21	MR. LOCKE: I'm asking him
22	answer?	22	if he wanted a break.
23	BY MR. GOLOMB:	23	THE WITNESS: I'm happy with
24	Q. And you certainly didn't do	24	the water. Keep going. I'm
	Q. This you containly than t to		the water. Reep going. Thi
	Page 115		Page 117
1	that in this case?	1	kicking myself privately for the
2	A. In which case?	2	fact that I did not recognize this
		_	
3	Q. In the case that brings you	3	gentleman earlier.
3 4	Q. In the case that brings you here today?		
	•	3	gentleman earlier.
4	here today?	3 4	gentleman earlier. BY MR. GOLOMB:
4 5	here today? MR. LOCKE: Objection.	3 4 5	gentleman earlier. BY MR. GOLOMB: Q. You mentioned before the
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30 (Pages 114 to 117)

	Page 118		Page 120
1	A. Yes, I did.	1	A. That's correct.
2	Q. And do you agree that's what	2	Q. All right. And other than
3	this is?	3	when you went on a month ago or so and
4	A. No. It was. It's an old	4	updated the list of selected
5	version of it. It's been updated.	5	publications, did you make any other
6	Q. Okay. And how did you	6	edits to the website? As an example, you
7	determine that this is an older version?	7	see at the top of the page it says
8	A. The most recent publication	8	"Research Interests"?
9	is 2012. So it's at least six to	9	A. I don't remember ever having
10	seven years old.	10	put that there. So I don't I don't
11	Q. Okay. Well, I will	11	know.
12	represent to you that I printed this out	12	Q. Okay. Well, if you wanted
13	myself a little more than a week ago.	13	to change your research interests
14	A. I updated it less than a	14	A. Yes.
15	month ago.	15	Q when you went on the
16	Q. Have you gone	16	when you went on the website to update
17	A. Unrelated to this particular	17	the selected publications, would you also
18	getting together that we have here today.	18	be able to update research interests?
19	Q. And have you been on the	19	A. I would have to look to see
20	website in the last week or so?	20	for sure. I don't know. I assume. But
21	A. No.	21	I don't know.
22	Q. Okay. You may want to do	22	Q. All right. And so under
23	that just to see if it's been updated.	23	research interests, it says, "Chemicals
24	A. Yeah. That's important.	24	and drugs," correct?
	Page 119		Page 121
1	Thank you very much.	1	A. That's what it says.
2	Q. And so you are able to go on	2	Q. And then it says
3	it yourself to update the information?	3	underneath that, the next paragraph is,
4	A. There is some method. I've	4	"Extensive research description."
5	got an e-mail somewhere with instructions	5	Do you see that?
6	and I filed it. And if I can find it, I	6	A. Yes.
7	will do it. Otherwise I'll ask for a new	7	Q. And it says, "Dr. Borak's
8	copy.	8	research interest in the areas of
9	Q. Okay. And so other than	9	environmental and industrial toxicology,
10	going on and so when you say you	10	biological and clinical surveillance of
11	updated it, did you do that yourself by	11	toxic exposures, environmental and
12	following the instructions going on, and	12	workplace exposure assessments and risk
13	so you're able to edit it yourself?	13	assessments of susceptible populations."
14	A. Yes, that's correct.	14	Correct?
15	Q. And other than updating	15	A. That's what it says.
16	it and I assume that you're referring	16	Q. And then it says your,
		17	"Recent research projects have focused on
17	to the date of the most recent selected	1	
17 18	publication on the one that I printed	18	issues such as the assessment of
17 18 19	publication on the one that I printed out; is that correct?	18 19	issues such as the assessment of occupational exposures to diesel
17 18 19 20	publication on the one that I printed out; is that correct?  A. Well, that's what jumps out	18 19 20	issues such as the assessment of occupational exposures to diesel exhaust"
17 18 19 20 21	publication on the one that I printed out; is that correct?  A. Well, that's what jumps out at me right there. To tell me how old	18 19 20 21	issues such as the assessment of occupational exposures to diesel exhaust" A. That's old.
17 18 19 20 21 22	publication on the one that I printed out; is that correct?  A. Well, that's what jumps out at me right there. To tell me how old this listing is, yes.	18 19 20 21 22	issues such as the assessment of occupational exposures to diesel exhaust" A. That's old. Q "historical
17 18 19 20 21 22 23	publication on the one that I printed out; is that correct?  A. Well, that's what jumps out at me right there. To tell me how old this listing is, yes.  Q. Okay. And that's from list	18 19 20 21 22 23	issues such as the assessment of occupational exposures to diesel exhaust" A. That's old. Q "historical reconstruction of silica particulate
17 18 19 20 21 22	publication on the one that I printed out; is that correct?  A. Well, that's what jumps out at me right there. To tell me how old this listing is, yes.	18 19 20 21 22	issues such as the assessment of occupational exposures to diesel exhaust" A. That's old. Q "historical

31 (Pages 118 to 121)

	Page 122		Page 124
1	A. That's also sort of old,	1	Q. And what about this list
2	although it's ongoing.	2	that which had the most recent one of
3	Q "respiratory	3	2012? Were you the one who selected
4	sensitization by reactive monomers"	4	those publications at that time?
5	A. Yes. That's also old.	5	A. Very possibly, but I don't
6	Q "and the clinical	6	remember.
7	assessment of beryllium-related	7	Q. Okay. And again, this is
8	diseases."	8	obviously not meant to be a comprehensive
9	A. Yes. That's also old, but	9	list?
10	true.	10	A. No.
11	Q. Okay. And so if I went on	11	Q. And so, how do you how do
12	the website a week ago rather than	12	you just generally, how do you decide
13	getting this, what would it now say?	13	what goes on the list and what does not
14	A. I frankly don't know. I'd	14	go on the list?
15	have to go look.	15	A. Well, what I what I said,
16	Q. Okay. So you don't remember	16	but I'll repeat, because it's this was
17	what the updates were that you made?	17	meant to indicate the activities, my
18	A. I don't remember. I can	18	activities, that were relevant to members
19	tell you that the purpose of this website	19	of the occupational and environmental
20	is in the embrace and the context of the	20	medicine program and its applicants.
21	occupational and environmental medicine,	21	Q. Okay. When well, strike
22	and in part so that the applicants to the	22	that.
23	program know what the faculty members do	23	So who was the TASA Group?
24	so that they know what sort of resources	24	A. I have never met the TASA
21	so that they know what soft of resources		A. I have hever met the TASA
	Page 123		5 105
	1490 125		Page 125
1	there are in the program.	1	Group, but they are a thing that's out
1 2		1 2	
	there are in the program.		Group, but they are a thing that's out
2	there are in the program. So, for example, in this	2	Group, but they are a thing that's out there. It's a company of some sort that
2	there are in the program.  So, for example, in this case, I would list things that were	2 3	Group, but they are a thing that's out there. It's a company of some sort that provides consultation.
2 3 4	there are in the program.  So, for example, in this case, I would list things that were particularly relevant and salient to	2 3 4	Group, but they are a thing that's out there. It's a company of some sort that provides consultation.  Q. And do you know what what
2 3 4 5	there are in the program.  So, for example, in this case, I would list things that were particularly relevant and salient to occupational and environmental medicine;	2 3 4 5	Group, but they are a thing that's out there. It's a company of some sort that provides consultation.  Q. And do you know what what kind of consultation they provide?  A. I am here today working for the TASA Group.
2 3 4 5 6	there are in the program.  So, for example, in this case, I would list things that were particularly relevant and salient to occupational and environmental medicine; whereas, by contrast, when I had a web	2 3 4 5 6	Group, but they are a thing that's out there. It's a company of some sort that provides consultation.  Q. And do you know what what kind of consultation they provide?  A. I am here today working for
2 3 4 5 6 7	there are in the program.  So, for example, in this case, I would list things that were particularly relevant and salient to occupational and environmental medicine; whereas, by contrast, when I had a web page at the School of Public Health, it	2 3 4 5 6 7	Group, but they are a thing that's out there. It's a company of some sort that provides consultation.  Q. And do you know what what kind of consultation they provide?  A. I am here today working for the TASA Group.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	there are in the program.  So, for example, in this case, I would list things that were particularly relevant and salient to occupational and environmental medicine; whereas, by contrast, when I had a web page at the School of Public Health, it would have listed work I did that was more specific and relevant to general public health.  But there's nothing these are true publications. And this is what I probably listed then.  Q. Okay. And again, correct me if I'm wrong. When when these selected publications went on let's just assume we're dealing with a current list. And I'm not asking specifically about the list as much as I am the process of how things get on a website. You're the one who selects the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Group, but they are a thing that's out there. It's a company of some sort that provides consultation.  Q. And do you know what what kind of consultation they provide?  A. I am here today working for the TASA Group.  Q. And how is it that you want came came here today working with TASA?  A. Well, I came here today because Mr. Locke invited me to come here today. That is not what you were asking me.  I am working with Mr. Locke because the TASA Group had given him my name and we spoke, and he looked at my resumé and asked me to do some stuff for him.  Q. And had you ever worked with the TASA Group before?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	there are in the program.  So, for example, in this case, I would list things that were particularly relevant and salient to occupational and environmental medicine; whereas, by contrast, when I had a web page at the School of Public Health, it would have listed work I did that was more specific and relevant to general public health.  But there's nothing these are true publications. And this is what I probably listed then.  Q. Okay. And again, correct me if I'm wrong. When when these selected publications went on let's just assume we're dealing with a current list. And I'm not asking specifically about the list as much as I am the process of how things get on a website. You're the one who selects the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Group, but they are a thing that's out there. It's a company of some sort that provides consultation.  Q. And do you know what what kind of consultation they provide?  A. I am here today working for the TASA Group.  Q. And how is it that you want came came here today working with TASA?  A. Well, I came here today because Mr. Locke invited me to come here today. That is not what you were asking me.  I am working with Mr. Locke because the TASA Group had given him my name and we spoke, and he looked at my resumé and asked me to do some stuff for him.  Q. And had you ever worked with the TASA Group before?  A. A couple of times.

32 (Pages 122 to 125)

Jonathan Borak, M.D., DABT

Page 126 Page 128 1 A. Well, let me say obviously 1 A. Epidemiology permeates my 2 it was before I met Mr. Locke. I don't 2 thinking scientifically, so it's hard to 3 3 know how far in advance of that. differentiate. I don't think that I'm 4 The next question you'll ask 4 working as specifically an 5 me is how did I get to meet the TASA 5 epidemiologist, though I am doing that 6 Group. The answer's that a colleague 6 here, but I'm not here simply as an 7 7 friend of mine, a professor in Detroit, epidemiologist. 8 called me some years ago, five, not 8 Q. Okay. You -- you understand 9 probably more than five, maybe less. And 9 that you, through the lawyers, produced 10 10 said that he had been approached by this your expert report in this case, correct? 11 group with whom he had worked to help on 11 A. Yes. O. And you are identified as an 12 a project that was too big for him. And 12 13 asked me whether I would be interested 13 epidemiologist? 14 and I said yes, I would. And so he made 14 A. In part, yes. 15 the introduction. 15 Q. And your -- your opinion, 16 That original work had to do 16 according to your report, is as an with compiling a very large number of epidemiologist, do you understand that? 17 17 essentially Workers' Compensation claims MR. LOCKE: Objection. 18 18 THE WITNESS: Show me where 19 in the railroad industry and trying to 19 make some interpretation or analysis of 20 20 it says that, sir. what the data were. It did not entail 21 21 BY MR. GOLOMB: 22 any litigation that I was aware of, or at 2.2 Q. Well, do -- do you 23 least it didn't involve me in any 23 understand that, yes or no? A. I -- I don't understand what 24 litigation, only in the analysis of a 24 Page 127 Page 129 1 large amount of data, and I had an 1 you've just said to me. 2 infrastructure in my office to do that 2 Q. Okay. And in the prior case work, and so I worked with the TASA Group 3 when you were introduced by your friend 3 4 from Detroit to TASA did you -- you were 4 5 5 And then periodically they introduced as what in terms of X, Y or Z? 6 have called me and said we have somebody 6 A. I didn't hear the 7 who is looking for an X or a Y or a Z, 7 introduction, but I was identified as a 8 are you interested, can you help us. And 8 physician, an occupational physician, a sometimes I say yes, I can help you, and 9 9 toxicologist and an epidemiologist. sometimes I say no, I can't help you, 10 10 Q. And did you -- did you speak because it's not what I do. And other 11 11 to somebody from TASA before you were times I've said I'm sorry, I'm too busy, 12 12 engaged? 13 but I'll give you some advice. 13 A. I must have. Q. And when you say they call Q. Okay. And you would have 14 14 15 you for your services as an X, a Y or a 15 worked out a fee arrangement with them, 16 Z, what is X, Y and Z? 16 correct? 17 A. It could be as an internist. 17 A. The arrangement I had with 18 It could be as a toxicologist. It could 18 them for fees, are you asking what is it? 19 be as an occupational environmental 19 Yes, I would -physician. And it could be as an 20 2.0 Q. No, I'm asking -- I'm asking 21 epidemiologist. 21 a very specific question about your 22 conversations with -- with TASA five Q. Have you ever served as an 22 epidemiologist for TASA before the talc years ago when you were first introduced 23 23 24 cases? 24 to them.

33 (Pages 126 to 129)

		1	
	Page 130		Page 132
1	A. Fine. Ask me again.	1	the hourly rate in the case, whether it
2	Q. What was the fee	2	was five years ago, more or less, what
3	arrangement?	3	was your hourly rate in that case?
4	A. I sent them my invoices and	4	A. Which case?
5	they billed the client.	5	Q. The case that your friend
6	Q. And the invoices that you	6	from Detroit introduced you to the to
7	that you bill, do they they include	7	TASA.
8	the number of hours that you work?	8	A. I think it is whatever it is
9	A. Yes, that's correct.	9	today.
10	Q. And is is the billing	10	Q. Which is what?
11	that you provided to them in this project	11	A. I think probably something
12	five years ago, similar similar to the	12	in the range of 550, to 600, I'm not
13	bills that you provided in this case?	13	sure.
14	A. The answer is yes, and I'm	14	Q. Okay. And so if we looked
15	not sure if five years is correct. But	15	at your invoices that you provide on
16	I'm not disagreeing. I understand what	16	Jonathan Borak stationary that you
17	you yes, it's the same process. And	17	provide to to TASA? So you let me
18	then what TASA does with the bills, I	18	just be clear. Before as a
19	don't know.	19	background, you your bills go to TASA,
20	Q. And do are your your	20	not to Mr. Locke?
21	bills identify the number of hours that	21	A. That's correct.
22	you worked?	22	Q. All right. And so if we
23	A. Yes, that's correct. And	23	looked at your invoices, it would it
24	whomever else works on the project.	24	would show the number of hours, correct?
	Page 131		Page 133
1		1	
1 2	Q. And the and the bills	1 2	A. Yes.
2	Q. And the and the bills that you provide to TASA, are they on	2	<ul><li>A. Yes.</li><li>Q. And then it would be times</li></ul>
2 3	Q. And the and the bills that you provide to TASA, are they on Jonathan Borak & Company letterhead?	2 3	A. Yes. Q. And then it would be times an hourly rate for you, times an hourly
2 3 4	Q. And the and the bills that you provide to TASA, are they on Jonathan Borak & Company letterhead?  A. Yes, of course.	2 3 4	A. Yes. Q. And then it would be times an hourly rate for you, times an hourly rate for those hours identified for your
2 3	Q. And the and the bills that you provide to TASA, are they on Jonathan Borak & Company letterhead?  A. Yes, of course.  Q. And is there a calculation	2 3 4 5	A. Yes. Q. And then it would be times an hourly rate for you, times an hourly rate for those hours identified for your librarian, and then there would be a
2 3 4 5	Q. And the and the bills that you provide to TASA, are they on Jonathan Borak & Company letterhead?  A. Yes, of course.	2 3 4	A. Yes. Q. And then it would be times an hourly rate for you, times an hourly rate for those hours identified for your librarian, and then there would be a total number of hours and a total dollar
2 3 4 5 6	Q. And the and the bills that you provide to TASA, are they on Jonathan Borak & Company letterhead?  A. Yes, of course.  Q. And is there a calculation of your number of hours on on the	2 3 4 5 6	A. Yes. Q. And then it would be times an hourly rate for you, times an hourly rate for those hours identified for your librarian, and then there would be a total number of hours and a total dollar amount?
2 3 4 5 6 7	Q. And the and the bills that you provide to TASA, are they on Jonathan Borak & Company letterhead? A. Yes, of course. Q. And is there a calculation of your number of hours on on the Jonathan Borak bills that you provide to	2 3 4 5 6 7	A. Yes. Q. And then it would be times an hourly rate for you, times an hourly rate for those hours identified for your librarian, and then there would be a total number of hours and a total dollar amount? A. Essentially.
2 3 4 5 6 7 8	Q. And the and the bills that you provide to TASA, are they on Jonathan Borak & Company letterhead? A. Yes, of course. Q. And is there a calculation of your number of hours on on the Jonathan Borak bills that you provide to TASA, is there a calculation of the bills	2 3 4 5 6 7 8	A. Yes. Q. And then it would be times an hourly rate for you, times an hourly rate for those hours identified for your librarian, and then there would be a total number of hours and a total dollar amount? A. Essentially.
2 3 4 5 6 7 8 9 10	Q. And the and the bills that you provide to TASA, are they on Jonathan Borak & Company letterhead?  A. Yes, of course.  Q. And is there a calculation of your number of hours on on the Jonathan Borak bills that you provide to TASA, is there a calculation of the bills times your hourly rate, or just the hours?  A. I don't no, no, I think	2 3 4 5 6 7 8 9 10	A. Yes. Q. And then it would be times an hourly rate for you, times an hourly rate for those hours identified for your librarian, and then there would be a total number of hours and a total dollar amount? A. Essentially. Q. Okay. And I'm assuming you don't wait until the case is over to bill, correct?
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2 3 4 5 6 7 8 9 10 11 12 13 14	Q. And the and the bills that you provide to TASA, are they on Jonathan Borak & Company letterhead? A. Yes, of course. Q. And is there a calculation of your number of hours on on the Jonathan Borak bills that you provide to TASA, is there a calculation of the bills times your hourly rate, or just the hours? A. I don't no, no, I think it's both probably. And the hourly rate at least indicates, for example I have a librarian. I think that her time	2 3 4 5 6 7 8 9 10 11 12 13 14	A. Yes. Q. And then it would be times an hourly rate for you, times an hourly rate for those hours identified for your librarian, and then there would be a total number of hours and a total dollar amount?  A. Essentially. Q. Okay. And I'm assuming you don't wait until the case is over to bill, correct?  A. Yes, I do not. Q. You bill on a monthly basis? A. Yes, I do.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. And the and the bills that you provide to TASA, are they on Jonathan Borak & Company letterhead?  A. Yes, of course.  Q. And is there a calculation of your number of hours on on the Jonathan Borak bills that you provide to TASA, is there a calculation of the bills times your hourly rate, or just the hours?  A. I don't no, no, I think it's both probably. And the hourly rate at least indicates, for example I have a librarian. I think that her time goes at something like in the range of 45 to 60 an hour. I don't actually remember. And so that is broken out.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Yes. Q. And then it would be times an hourly rate for you, times an hourly rate for those hours identified for your librarian, and then there would be a total number of hours and a total dollar amount? A. Essentially. Q. Okay. And I'm assuming you don't wait until the case is over to bill, correct? A. Yes, I do not. Q. You bill on a monthly basis? A. Yes, I do. Q. And so, each month would have a bill that includes the number of hours, times an hourly rate for you,
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. And the and the bills that you provide to TASA, are they on Jonathan Borak & Company letterhead? A. Yes, of course. Q. And is there a calculation of your number of hours on on the Jonathan Borak bills that you provide to TASA, is there a calculation of the bills times your hourly rate, or just the hours? A. I don't no, no, I think it's both probably. And the hourly rate at least indicates, for example I have a librarian. I think that her time goes at something like in the range of 45 to 60 an hour. I don't actually remember. And so that is broken out. And I have had other people who have worked with me on some of these	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yes. Q. And then it would be times an hourly rate for you, times an hourly rate for those hours identified for your librarian, and then there would be a total number of hours and a total dollar amount?  A. Essentially. Q. Okay. And I'm assuming you don't wait until the case is over to bill, correct? A. Yes, I do not. Q. You bill on a monthly basis? A. Yes, I do. Q. And so, each month would have a bill that includes the number of hours, times an hourly rate for you, times an hourly rate for your librarian? A. And whomever else, yes.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. And the and the bills that you provide to TASA, are they on Jonathan Borak & Company letterhead?  A. Yes, of course.  Q. And is there a calculation of your number of hours on on the Jonathan Borak bills that you provide to TASA, is there a calculation of the bills times your hourly rate, or just the hours?  A. I don't no, no, I think it's both probably. And the hourly rate at least indicates, for example I have a librarian. I think that her time goes at something like in the range of 45 to 60 an hour. I don't actually remember. And so that is broken out.  And I have had other people who have worked with me on some of these projects, including this one at some point. And so it breaks out individuals,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yes. Q. And then it would be times an hourly rate for you, times an hourly rate for those hours identified for your librarian, and then there would be a total number of hours and a total dollar amount?  A. Essentially. Q. Okay. And I'm assuming you don't wait until the case is over to bill, correct?  A. Yes, I do not. Q. You bill on a monthly basis? A. Yes, I do. Q. And so, each month would have a bill that includes the number of hours, times an hourly rate for you, times an hourly rate for your librarian? A. And whomever else, yes. Q. Okay. And that bill that would then go to TASA?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. And the and the bills that you provide to TASA, are they on Jonathan Borak & Company letterhead?  A. Yes, of course.  Q. And is there a calculation of your number of hours on on the Jonathan Borak bills that you provide to TASA, is there a calculation of the bills times your hourly rate, or just the hours?  A. I don't no, no, I think it's both probably. And the hourly rate at least indicates, for example I have a librarian. I think that her time goes at something like in the range of 45 to 60 an hour. I don't actually remember. And so that is broken out.  And I have had other people who have worked with me on some of these projects, including this one at some point. And so it breaks out individuals, and it says how many hours were spent and	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. Q. And then it would be times an hourly rate for those hours identified for your librarian, and then there would be a total number of hours and a total dollar amount? A. Essentially. Q. Okay. And I'm assuming you don't wait until the case is over to bill, correct? A. Yes, I do not. Q. You bill on a monthly basis? A. Yes, I do. Q. And so, each month would have a bill that includes the number of hours, times an hourly rate for you, times an hourly rate for your librarian? A. And whomever else, yes. Q. Okay. And that bill that would then go to TASA? A. Correct.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. And the and the bills that you provide to TASA, are they on Jonathan Borak & Company letterhead?  A. Yes, of course.  Q. And is there a calculation of your number of hours on on the Jonathan Borak bills that you provide to TASA, is there a calculation of the bills times your hourly rate, or just the hours?  A. I don't no, no, I think it's both probably. And the hourly rate at least indicates, for example I have a librarian. I think that her time goes at something like in the range of 45 to 60 an hour. I don't actually remember. And so that is broken out.  And I have had other people who have worked with me on some of these projects, including this one at some point. And so it breaks out individuals,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yes. Q. And then it would be times an hourly rate for you, times an hourly rate for those hours identified for your librarian, and then there would be a total number of hours and a total dollar amount?  A. Essentially. Q. Okay. And I'm assuming you don't wait until the case is over to bill, correct?  A. Yes, I do not. Q. You bill on a monthly basis? A. Yes, I do. Q. And so, each month would have a bill that includes the number of hours, times an hourly rate for you, times an hourly rate for your librarian? A. And whomever else, yes. Q. Okay. And that bill that would then go to TASA?

34 (Pages 130 to 133)

		<u> </u>	
	Page 134		Page 136
1	TASA, do they break down the details of	1	Q. Did you instruct anybody in
2	what you did that month?	2	your office to delete them?
3	A. It indicates day by day.	3	A. No.
4	Q. Okay. And is there a	4	Q. All right. So and nobody
5	description of what you did for that hour	5	would delete them without your
6	or three hours or four hours?	6	instruction, correct?
7	A. It may indicate review of	7	A. Yes.
8	topics, or phone calls, yes.	8	Q. That's correct?
9	Q. Okay. And then as you	9	A. Yes, that's correct.
10	indicated earlier, once you send the	10	Q. So going back to my
11	bills to TASA, you don't know what	11	question. My question was then, your
12	happens then with those bills. You just	12	office prepares these detailed invoices
13	know that you get a check?	13	on Jonathan Borak & Company stationery,
14	MR. HEGARTY: Objection.	14	it's got the number of hours for the
15	THE WITNESS: Well, that's	15	month, times your hourly rate for that
16	simplistic, but yes.	16	month, times your librarian's hourly rate
17	BY MR. GOLOMB:	17	for that month. There's a dollar figure.
18	Q. Well, I want to I don't	18	And then you send the bill to TASA.
19	want to know implicitly. I want to know	19	You don't know what happens
20	factually. Is that what happens?	20	with the bill after that, and you're not
21	A. I said simplistically. I	21	involved with the bill after that. You
22	don't know what the process is between.	22	know, at some point you get a check?
23	Eventually, yes, a check does arrive.	23	MR. HEGARTY: Objection.
24	Q. Okay. I didn't ask you what	24	MR. LOCKE: Objection.
			<b>,</b>
	Page 135		Page 137
1	the process was in between. My question	1	THE WITNESS: I do not know
2	was, very specifically do you prepare	2	the mechanics of the process at
3	the bills yourself?	3	TASA.
4	A. No.	4	BY MR. GOLOMB:
5	Q. Okay. How do you how do	5	Q. Right. And is the is
6	you who does prepare the bill?	6	the do you ever see the TASA bills?
7	A. There is somebody who does	7	A. No.
8	that bookkeeping part of my work.	8	Q. Do you know what TASA does
9	Q. Okay. And how do they get	9	with their bills?
10	the information to bill it, do you keep	10	A. What do you mean?
11	time slips?	11	Q. TASA, I assume, wants to get
12	A. Yes.	12	paid?
13	Q. Do you keep time slips in	13	A. I assume they do.
14	writing or do you keep time slips on the	14	Q. All right. So the check
15	computer?	15	that you receive, is that a check from
16	A. On the computer.	16	TASA?
17	Q. And if we wanted to see	17	A. Yes. It's a check from
18	those time slips, are they still	18	TASA.
19	available?	19	Q. So you don't get a check
20	A. I don't know. But probably.	20	from Mr. Locke or Mr. Locke's office?
21	Q. Okay. You didn't delete	21	A. I don't believe I have ever
22	them, did you?	22	gotten a check from Mr. Locke or
23	A. I am not aware that I	23	Mr. Locke's office.
24	deleted them.	24	Q. In this case, you don't

35 (Pages 134 to 137)

	Page 138		Page 140
1	you don't get a check from an insurance	1	interesting that you raise it. It
2	company?	2	doesn't surprise me, but I don't
3	A. I don't know what insurance	3	know.
4	companies, no.	4	BY MR. GOLOMB:
5	Q. My question was, you don't	5	Q. Would you care one way or
6	get a check from an insurance company?	6	the other?
7	A. Not in this litigation.	7	A. I would care if anybody was
8	Q. Right. Right. You get your	8	saying false things about me.
9	check directly from TASA?	9	Q. Well, would you would you
10	A. That's correct.	10	care whether or not TASA was out there
11	Q. By the way, do you know	11	offering your services to lawyers as a
12	whether or not, one way or the other,	12	consultant on an hourly basis?
13	whether or not TASA publishes a book of	13	MR. LOCKE: Objection.
14	the experts who they use?	14	MR. HEGARTY: Objection.
15	MR. HEGARTY: Objection.	15	THE WITNESS: I've assumed
16	THE WITNESS: I do not.	16	that's what they were doing.
17	BY MR. GOLOMB:	17	Otherwise, I don't think I would
18	Q. Okay. Did you ever did	18	be getting phone calls from them.
19	you ever send one of your CVs to TASA?	19	I get them, not many, but
20	A. Oh, yes.	20	occasionally.
21	Q. Okay. But you don't know	21	BY MR. GOLOMB:
22	whether or not they publish a book of	22	Q. Okay. Do you know anything
23	their experts?	23	about who TASA serves?
24	A. No, I don't know.	24	A. The only person besides me
	Page 139		
	1490 139		Page 141
1	Q. Okay. Have you ever	1	Page 141 that I know that has worked with TASA was
1 2		1 2	
	Q. Okay. Have you ever		that I know that has worked with TASA was
2	Q. Okay. Have you ever advertised your services as a consultant?	2	that I know that has worked with TASA was my colleague in Detroit.
2	<ul><li>Q. Okay. Have you ever advertised your services as a consultant?</li><li>A. No.</li></ul>	2 3	that I know that has worked with TASA was my colleague in Detroit. Q. Okay. So you never did
2 3 4	<ul><li>Q. Okay. Have you ever advertised your services as a consultant?</li><li>A. No.</li><li>Q. In any form or fashion?</li></ul>	2 3 4	that I know that has worked with TASA was my colleague in Detroit.  Q. Okay. So you never did as an example, you never did any independent research to find out who TASA was and what kind of company they were
2 3 4 5	<ul> <li>Q. Okay. Have you ever advertised your services as a consultant?</li> <li>A. No.</li> <li>Q. In any form or fashion?</li> <li>A. I've always thought that I</li> </ul>	2 3 4 5	that I know that has worked with TASA was my colleague in Detroit.  Q. Okay. So you never did as an example, you never did any independent research to find out who TASA
2 3 4 5 6	Q. Okay. Have you ever advertised your services as a consultant? A. No. Q. In any form or fashion? A. I've always thought that I was self-promoting in a certain sense when I published articles in the peer-reviewed scientific literature. But	2 3 4 5 6	that I know that has worked with TASA was my colleague in Detroit.  Q. Okay. So you never did as an example, you never did any independent research to find out who TASA was and what kind of company they were and what their reputation was since they were offering your services as an expert?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Okay. Have you ever advertised your services as a consultant? A. No. Q. In any form or fashion? A. I've always thought that I was self-promoting in a certain sense when I published articles in the peer-reviewed scientific literature. But that's not what you mean, I'm sure. Q. No. I mean I mean whether or not you have paid for an advertisement, as an example, in one of these publications offering your services as an expert. A. No, I've never done that. Q. All right. If TASA was publishing your services and offering your services as an expert in a book that they publish and send out to corporations or lawyers, is that something that you'd want to know?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	that I know that has worked with TASA was my colleague in Detroit.  Q. Okay. So you never did as an example, you never did any independent research to find out who TASA was and what kind of company they were and what their reputation was since they were offering your services as an expert?  MR. HEGARTY: Objection.  MR. LOCKE: Objection.  THE WITNESS: I was introduced to them by a man whom I held in high regard. I regarded that as being a due diligence.  BY MR. GOLOMB:  Q. Okay. When was the first time that you were ever contacted to serve as a consultant in the talc litigation?  A. I don't know the date. But it probably was in 2016 or 2017. It's

	Page 142		Page 144
1	Q. Okay. I'm pretty sure	1	BY MR. GOLOMB:
2	Mr. Locke would tell you, even if he	2	Q. Okay. This was also an
3	does, he's not allowed to answer the	3	invoice that you were questioned on by
4	question on the record.	4	Mr. Greenback back in June of 2017 in
5	A. In that case, I was looking	5	your earlier deposition in the Oules
6	to see whether he smiled or grimaced.	6	case. Do you remember Mr. Green asking
7	Q. Okay. So let me just	7	you about invoices from that case?
8	represent to you that I have received on	8	A. No, but I remember
9	two separate occasions invoices. Some	9	Mr. Green.
10	are invoices from the TASA Group. Some	10	Q. Okay. Everybody remembers
11	are invoices from Jonathan Borak &	11	Mr. Green.
12	Company. I have the first set of	12	A. Yeah, yeah, no, he is a
13	bills that I have began in May of 2017,	13	charming fellow. He's got a nice smile.
14	and that is a set of invoices that are	14	Q. Yes, yes, he is. And he
15	marked for identification or marked as an	15	knows good pizza when he sees it.
16	exhibit as Exhibit 3, which I will show	16	A. Well, then he's in the right
17	you at some point.	17	town.
18		18	Q. So I want to be clear that
19	And then yesterday, I received another set of invoices that	19	in in this kind of the series of
20		20	
21	begin in August of 2015 that I saw for	21	questions that I'm going to be asking
22	the first time late last evening.	22	you, I don't want to know any anything
23	So while I have a hardcopy	23	about any conversations you may have had
	of it, and we'll at some point we'll		with Mr. Locke or any of the lawyers in
24	show you that on the Elmo, and I don't	24	Mr. Locke's office, okay?
	Dama 142		
	Page 143		Page 145
1	have copies for everybody else, because	1	Page 145 A. Okay.
1 2		1 2	<ul><li>A. Okay.</li><li>Q. You understand that that's</li></ul>
	have copies for everybody else, because		A. Okay.
2	have copies for everybody else, because we just got it, and I didn't have time to	2	<ul><li>A. Okay.</li><li>Q. You understand that that's</li></ul>
2	have copies for everybody else, because we just got it, and I didn't have time to make the copies. Okay.	2 3	A. Okay. Q. You understand that that's privileged, correct?
2 3 4	have copies for everybody else, because we just got it, and I didn't have time to make the copies. Okay.  I give you that as a way of	2 3 4	<ul><li>A. Okay.</li><li>Q. You understand that that's privileged, correct?</li><li>A. Yes.</li></ul>
2 3 4 5	have copies for everybody else, because we just got it, and I didn't have time to make the copies. Okay.  I give you that as a way of background because you'll know why there	2 3 4 5	<ul><li>A. Okay.</li><li>Q. You understand that that's privileged, correct?</li><li>A. Yes.</li><li>Q. All right. So if we assume</li></ul>
2 3 4 5 6	have copies for everybody else, because we just got it, and I didn't have time to make the copies. Okay.  I give you that as a way of background because you'll know why there are copies for you on some things and	2 3 4 5 6	<ul> <li>A. Okay.</li> <li>Q. You understand that that's privileged, correct?</li> <li>A. Yes.</li> <li>Q. All right. So if we assume for the sake of discussion that the first</li> </ul>
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2 3 4 5 6 7 8 9 10 11 12 13 14 15	have copies for everybody else, because we just got it, and I didn't have time to make the copies. Okay.  I give you that as a way of background because you'll know why there are copies for you on some things and others, but I also tell you that because I want to know if the fact that the first entry on what will be Exhibit 30 that I received last night has the earliest date is August 24th of 2015, and whether or not that helps refresh your recollection as to when you were first contacted.  A. I I'm going to	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Okay. Q. You understand that that's privileged, correct? A. Yes. Q. All right. So if we assume for the sake of discussion that the first contact that you had in the talc litigation was back in August of 2015, how were you contacted? A. By phone. Q. By whom? A. I assume I don't remember. Do you want me to to assume? I assume it was a call from somebody at TASA. But I don't remember. Q. Okay. And tell me about that conversation.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	have copies for everybody else, because we just got it, and I didn't have time to make the copies. Okay.  I give you that as a way of background because you'll know why there are copies for you on some things and others, but I also tell you that because I want to know if the fact that the first entry on what will be Exhibit 30 that I received last night has the earliest date is August 24th of 2015, and whether or not that helps refresh your recollection as to when you were first contacted.  A. I I'm going to  MR. LOCKE: Objection. You	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Okay. Q. You understand that that's privileged, correct? A. Yes. Q. All right. So if we assume for the sake of discussion that the first contact that you had in the talc litigation was back in August of 2015, how were you contacted? A. By phone. Q. By whom? A. I assume I don't remember. Do you want me to to assume? I assume it was a call from somebody at TASA. But I don't remember. Q. Okay. And tell me about
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	have copies for everybody else, because we just got it, and I didn't have time to make the copies. Okay.  I give you that as a way of background because you'll know why there are copies for you on some things and others, but I also tell you that because I want to know if the fact that the first entry on what will be Exhibit 30 that I received last night has the earliest date is August 24th of 2015, and whether or not that helps refresh your recollection as to when you were first contacted.  A. I I'm going to  MR. LOCKE: Objection. You can answer.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Okay. Q. You understand that that's privileged, correct? A. Yes. Q. All right. So if we assume for the sake of discussion that the first contact that you had in the talc litigation was back in August of 2015, how were you contacted? A. By phone. Q. By whom? A. I assume I don't remember. Do you want me to to assume? I assume it was a call from somebody at TASA. But I don't remember. Q. Okay. And tell me about that conversation.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	have copies for everybody else, because we just got it, and I didn't have time to make the copies. Okay.  I give you that as a way of background because you'll know why there are copies for you on some things and others, but I also tell you that because I want to know if the fact that the first entry on what will be Exhibit 30 that I received last night has the earliest date is August 24th of 2015, and whether or not that helps refresh your recollection as to when you were first contacted.  A. I I'm going to  MR. LOCKE: Objection. You can answer.  THE WITNESS: I will tell	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Okay. Q. You understand that that's privileged, correct? A. Yes. Q. All right. So if we assume for the sake of discussion that the first contact that you had in the talc litigation was back in August of 2015, how were you contacted? A. By phone. Q. By whom? A. I assume I don't remember. Do you want me to to assume? I assume it was a call from somebody at TASA. But I don't remember. Q. Okay. And tell me about that conversation. A. I don't remember it.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	have copies for everybody else, because we just got it, and I didn't have time to make the copies. Okay.  I give you that as a way of background because you'll know why there are copies for you on some things and others, but I also tell you that because I want to know if the fact that the first entry on what will be Exhibit 30 that I received last night has the earliest date is August 24th of 2015, and whether or not that helps refresh your recollection as to when you were first contacted.  A. I I'm going to  MR. LOCKE: Objection. You can answer.  THE WITNESS: I will tell you I don't have any specific	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Okay. Q. You understand that that's privileged, correct? A. Yes. Q. All right. So if we assume for the sake of discussion that the first contact that you had in the talc litigation was back in August of 2015, how were you contacted? A. By phone. Q. By whom? A. I assume I don't remember. Do you want me to to assume? I assume it was a call from somebody at TASA. But I don't remember. Q. Okay. And tell me about that conversation. A. I don't remember it. Q. You don't you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	have copies for everybody else, because we just got it, and I didn't have time to make the copies. Okay.  I give you that as a way of background because you'll know why there are copies for you on some things and others, but I also tell you that because I want to know if the fact that the first entry on what will be Exhibit 30 that I received last night has the earliest date is August 24th of 2015, and whether or not that helps refresh your recollection as to when you were first contacted.  A. I I'm going to  MR. LOCKE: Objection. You can answer.  THE WITNESS: I will tell you I don't have any specific recall. If you have such a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Okay. Q. You understand that that's privileged, correct? A. Yes. Q. All right. So if we assume for the sake of discussion that the first contact that you had in the talc litigation was back in August of 2015, how were you contacted? A. By phone. Q. By whom? A. I assume I don't remember. Do you want me to to assume? I assume it was a call from somebody at TASA. But I don't remember. Q. Okay. And tell me about that conversation. A. I don't remember it. Q. You don't you don't remember anything about the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	have copies for everybody else, because we just got it, and I didn't have time to make the copies. Okay.  I give you that as a way of background because you'll know why there are copies for you on some things and others, but I also tell you that because I want to know if the fact that the first entry on what will be Exhibit 30 that I received last night has the earliest date is August 24th of 2015, and whether or not that helps refresh your recollection as to when you were first contacted.  A. I I'm going to  MR. LOCKE: Objection. You can answer.  THE WITNESS: I will tell you I don't have any specific recall. If you have such a document that I will accept	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Okay. Q. You understand that that's privileged, correct? A. Yes. Q. All right. So if we assume for the sake of discussion that the first contact that you had in the talc litigation was back in August of 2015, how were you contacted? A. By phone. Q. By whom? A. I assume I don't remember. Do you want me to to assume? I assume it was a call from somebody at TASA. But I don't remember. Q. Okay. And tell me about that conversation. A. I don't remember it. Q. You don't you don't remember anything about the conversation?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	have copies for everybody else, because we just got it, and I didn't have time to make the copies. Okay.  I give you that as a way of background because you'll know why there are copies for you on some things and others, but I also tell you that because I want to know if the fact that the first entry on what will be Exhibit 30 that I received last night has the earliest date is August 24th of 2015, and whether or not that helps refresh your recollection as to when you were first contacted.  A. I I'm going to  MR. LOCKE: Objection. You can answer.  THE WITNESS: I will tell you I don't have any specific recall. If you have such a document that I will accept pending my review of it that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Okay. Q. You understand that that's privileged, correct? A. Yes. Q. All right. So if we assume for the sake of discussion that the first contact that you had in the talc litigation was back in August of 2015, how were you contacted? A. By phone. Q. By whom? A. I assume I don't remember. Do you want me to to assume? I assume it was a call from somebody at TASA. But I don't remember. Q. Okay. And tell me about that conversation. A. I don't remember it. Q. You don't you don't remember anything about the conversation? A. I can I can conjecture,

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Jonathan Borak, M.D., DABT

	Page 146		Page 148
1	your conjecture is not pure speculation,	1	of talk, what does that mean?
2	tell me what the what the conversation	2	A. I mean I was aware that in
3	was.	3	2010 IARC said there was a possibility.
4	A. Well, it's not pure	4	Q. Okay. Do you do you read
5	speculation.	5	the IARC monographs on a regular basis?
6	MR. LOCKE: Objection.	6	A. When you say on a regular
7	BY MR. GOLOMB:	7	basis, I often read them. And I look to
8	Q. Go ahead.	8	see what is coming out, so that I know
9	A. I presume that somebody	9	what they have been dealing with, but I
10	would have called me and said we have a	10	don't subscribe to them.
11	client who is interested in the following	11	Q. Okay. Okay. So you but
12	problem, would you be interested in	12	in 2015 as you sat there in 2015 and
13	speaking with him.	13	you were contacted by TASA, you
14	Q. Okay. And and that	14	remembered that IARC had done something
15	problem was, obviously, was the the	15	on talc back in 2010?
16	claims that tale was cause the	16	A. Not that specifically.
17	perineal use of talc was causing ovarian	17	Q. Then what what did you
18	cancer, correct?	18	recall?
19	MR. HEGARTY: Objection.	19	A. I was aware that it had been
20	MR. LOCKE: Objection.	20	an issue, that talc had been looked at by
21	THE WITNESS: It probably	21	IARC.
22	had to do with the association	22	Q. Okay. And did you have any
23	between talcum powder and ovarian	23	opinion on it at that point?
24	cancer.	24	MR. HEGARTY: Objection.
			<u> </u>
	Page 147		Page 149
1	BY MR. GOLOMB:	1	THE WITNESS: By opinion,
2	Q. Okay. And you obviously	2	you mean
3	said that you would be interested?	3	BY MR. GOLOMB:
4	A. I obviously said I was	4	Q. Whether or not talc was
5	interested in speaking with this person,	5	causing the ovarian cancer.
6	yes.	6	A. I I had no opinion at
7	Q. And as of that as of that	7	that time.
8	time, in August of 2015, what what is	8	Q. All right. And had you
9	it about your educational background,	9	read did you read the IARC monogram
10	your professional background, that	10	monograph before August of 2015?
11	that you felt, yeah, I may be the guy for	11	A. I don't remember. I have
12	this?	12	certainly read it since then.
	this? A. I had done a lot of work on	12 13	certainly read it since then.  Q. Well, you read that once you
12			
12 13	A. I had done a lot of work on particulates. I had written on	13	Q. Well, you read that once you
12 13 14	A. I had done a lot of work on	13 14	Q. Well, you read that once you were a paid consultant in this case.
12 13 14 15	A. I had done a lot of work on particulates. I had written on carcinogenicity but not on ovarian	13 14 15	Q. Well, you read that once you were a paid consultant in this case.  MR. LOCKE: Objection.
12 13 14 15 16	A. I had done a lot of work on particulates. I had written on carcinogenicity but not on ovarian cancer. I was interested in	13 14 15 16	Q. Well, you read that once you were a paid consultant in this case.  MR. LOCKE: Objection.  MR. HEGARTY: Objection.
12 13 14 15 16 17	A. I had done a lot of work on particulates. I had written on carcinogenicity but not on ovarian cancer. I was interested in environmental exposures and this seemed	13 14 15 16 17	Q. Well, you read that once you were a paid consultant in this case.  MR. LOCKE: Objection.  MR. HEGARTY: Objection.  THE WITNESS: I read that
12 13 14 15 16 17 18	A. I had done a lot of work on particulates. I had written on carcinogenicity but not on ovarian cancer. I was interested in environmental exposures and this seemed to fit into that area of interest.  Q. Okay. And at that point had	13 14 15 16 17 18	Q. Well, you read that once you were a paid consultant in this case.  MR. LOCKE: Objection.  MR. HEGARTY: Objection.  THE WITNESS: I read that after I became involved in this
12 13 14 15 16 17 18 19	A. I had done a lot of work on particulates. I had written on carcinogenicity but not on ovarian cancer. I was interested in environmental exposures and this seemed to fit into that area of interest.	13 14 15 16 17 18 19	Q. Well, you read that once you were a paid consultant in this case.  MR. LOCKE: Objection.  MR. HEGARTY: Objection.  THE WITNESS: I read that after I became involved in this case, but I probably read parts,
12 13 14 15 16 17 18 19 20	A. I had done a lot of work on particulates. I had written on carcinogenicity but not on ovarian cancer. I was interested in environmental exposures and this seemed to fit into that area of interest.  Q. Okay. And at that point had you read anything about the association	13 14 15 16 17 18 19 20	Q. Well, you read that once you were a paid consultant in this case.  MR. LOCKE: Objection.  MR. HEGARTY: Objection.  THE WITNESS: I read that after I became involved in this case, but I probably read parts, or was aware of it. But I don't
12 13 14 15 16 17 18 19 20 21	A. I had done a lot of work on particulates. I had written on carcinogenicity but not on ovarian cancer. I was interested in environmental exposures and this seemed to fit into that area of interest.  Q. Okay. And at that point had you read anything about the association between talc and ovarian cancer?	13 14 15 16 17 18 19 20 21	Q. Well, you read that once you were a paid consultant in this case.  MR. LOCKE: Objection.  MR. HEGARTY: Objection.  THE WITNESS: I read that after I became involved in this case, but I probably read parts, or was aware of it. But I don't remember.

38 (Pages 146 to 149)

	Page 150		Page 152
1	association between talc and ovarian	1	A. I think I had several
2	cancer before August of 2015?	2	conversations. So I think next was
3	MR. HEGARTY: Objection.	3	another conversation.
4	THE WITNESS: If I had, it	4	Q. All right. And and that
5	didn't stick specifically in my	5	was in the Oules case, correct? If
6	mind. I couldn't give you the	6	MR. LOCKE: You can answer
7	name of the author who wrote it.	7	if you can.
8	BY MR. GOLOMB:	8	BY MR. GOLOMB:
9	Q. Okay. And so when you	9	Q. Or let me let me back up.
10	you then said that yes, I'll be	10	Or maybe it wasn't
11	interested in possibly getting involved.	11	specifically about the Oules case,
12	What what happened next?	12	Mr. Locke just wanted you to generally
13	How how do you go from a	13	opine on the association between talc and
14	phone call with TASA to having a fee	14	ovarian cancer without giving you the
15	agreement to act as a as a paid	15	name of the case.
16	consultant?	16	MR. LOCKE: Objection.
17	MR. HEGARTY: Objection.	17	THE WITNESS: As I recall
18	THE WITNESS: I actually	18	it, I was not involved in any
19	don't remember the specifics, but	19	particular case.
20	at some point Mr. Locke indicated	20	BY MR. GOLOMB:
21	his concern was	21	Q. Okay. And then at at
22	BY MR. GOLOMB:	22	some point you said yes, I'll be
23	Q. Don't don't tell me about	23	involved. And you worked out an
24	conversations.	24	arrangement of what your what your
	D 151		
	Page 151		Page 153
1	A. Sorry.	1	Page 153 fees would be, how you would bill, and
2	A. Sorry. MR. LOCKE: Yeah.	2	fees would be, how you would bill, and what your job was in this particular
	A. Sorry.	2 3	fees would be, how you would bill, and
2	A. Sorry. MR. LOCKE: Yeah. BY MR. GOLOMB: Q. Let me back up	2 3 4	fees would be, how you would bill, and what your job was in this particular case, right?  MR. LOCKE: Objection.
2	A. Sorry. MR. LOCKE: Yeah. BY MR. GOLOMB:	2 3 4 5	fees would be, how you would bill, and what your job was in this particular case, right?
2 3 4	A. Sorry. MR. LOCKE: Yeah. BY MR. GOLOMB: Q. Let me back up	2 3 4	fees would be, how you would bill, and what your job was in this particular case, right?  MR. LOCKE: Objection.
2 3 4 5	A. Sorry. MR. LOCKE: Yeah. BY MR. GOLOMB: Q. Let me back up A. At some point I	2 3 4 5	fees would be, how you would bill, and what your job was in this particular case, right?  MR. LOCKE: Objection.  THE WITNESS: I I had
2 3 4 5 6	A. Sorry. MR. LOCKE: Yeah. BY MR. GOLOMB: Q. Let me back up A. At some point I understood	2 3 4 5 6	fees would be, how you would bill, and what your job was in this particular case, right?  MR. LOCKE: Objection.  THE WITNESS: I I had I've got to learn to be quiet for
2 3 4 5 6 7	A. Sorry. MR. LOCKE: Yeah. BY MR. GOLOMB: Q. Let me back up A. At some point I understood Q. Let let me let me back	2 3 4 5 6 7	fees would be, how you would bill, and what your job was in this particular case, right?  MR. LOCKE: Objection.  THE WITNESS: I I had I've got to learn to be quiet for a minute.
2 3 4 5 6 7 8	A. Sorry. MR. LOCKE: Yeah. BY MR. GOLOMB: Q. Let me back up A. At some point I understood Q. Let let me let me back up. And I I want to I want I	2 3 4 5 6 7 8	fees would be, how you would bill, and what your job was in this particular case, right?  MR. LOCKE: Objection.  THE WITNESS: I I had I've got to learn to be quiet for a minute.  BY MR. GOLOMB:
2 3 4 5 6 7 8 9	A. Sorry. MR. LOCKE: Yeah. BY MR. GOLOMB: Q. Let me back up A. At some point I understood Q. Let let me let me back up. And I I want to I want I want to ask a very specific question,	2 3 4 5 6 7 8 9	fees would be, how you would bill, and what your job was in this particular case, right?  MR. LOCKE: Objection.  THE WITNESS: I I had  I've got to learn to be quiet for a minute.  BY MR. GOLOMB:  Q. I'm sorry?
2 3 4 5 6 7 8 9	A. Sorry. MR. LOCKE: Yeah. BY MR. GOLOMB: Q. Let me back up A. At some point I understood Q. Let let me let me back up. And I I want to I want I want to ask a very specific question, because I want you to be careful you're	2 3 4 5 6 7 8 9	fees would be, how you would bill, and what your job was in this particular case, right?  MR. LOCKE: Objection.  THE WITNESS: I I had I've got to learn to be quiet for a minute.  BY MR. GOLOMB: Q. I'm sorry? A. I say I have to learn to be
2 3 4 5 6 7 8 9 10	A. Sorry.  MR. LOCKE: Yeah.  BY MR. GOLOMB:  Q. Let me back up  A. At some point I  understood  Q. Let let me let me back  up. And I I want to I want I  want to ask a very specific question,  because I want you to be careful you're  not telling me conversations with	2 3 4 5 6 7 8 9 10 11	fees would be, how you would bill, and what your job was in this particular case, right?  MR. LOCKE: Objection.  THE WITNESS: I I had I've got to learn to be quiet for a minute.  BY MR. GOLOMB: Q. I'm sorry? A. I say I have to learn to be quiet for the first 12 seconds.
2 3 4 5 6 7 8 9 10 11 12	A. Sorry.  MR. LOCKE: Yeah.  BY MR. GOLOMB:  Q. Let me back up  A. At some point I  understood  Q. Let let me let me back  up. And I I want to I want I  want to ask a very specific question,  because I want you to be careful you're not telling me conversations with  Mr. Locke.  So once TASA contacted you	2 3 4 5 6 7 8 9 10 11 12	fees would be, how you would bill, and what your job was in this particular case, right?  MR. LOCKE: Objection.  THE WITNESS: I I had I've got to learn to be quiet for a minute.  BY MR. GOLOMB: Q. I'm sorry? A. I say I have to learn to be quiet for the first 12 seconds. I I had no conversation
2 3 4 5 6 7 8 9 10 11 12 13	A. Sorry.  MR. LOCKE: Yeah.  BY MR. GOLOMB:  Q. Let me back up  A. At some point I  understood  Q. Let let me let me back  up. And I I want to I want I  want to ask a very specific question,  because I want you to be careful you're  not telling me conversations with  Mr. Locke.	2 3 4 5 6 7 8 9 10 11 12 13	fees would be, how you would bill, and what your job was in this particular case, right?  MR. LOCKE: Objection.  THE WITNESS: I I had I've got to learn to be quiet for a minute.  BY MR. GOLOMB: Q. I'm sorry? A. I say I have to learn to be quiet for the first 12 seconds.  I I had no conversation with Mr. Locke about finances.
2 3 4 5 6 7 8 9 10 11 12 13 14	A. Sorry.  MR. LOCKE: Yeah.  BY MR. GOLOMB:  Q. Let me back up  A. At some point I  understood  Q. Let let me let me back  up. And I I want to I want I  want to ask a very specific question,  because I want you to be careful you're not telling me conversations with  Mr. Locke.  So once TASA contacted you and you said yes, I'll be interested,	2 3 4 5 6 7 8 9 10 11 12 13 14	fees would be, how you would bill, and what your job was in this particular case, right?  MR. LOCKE: Objection.  THE WITNESS: I I had I've got to learn to be quiet for a minute.  BY MR. GOLOMB: Q. I'm sorry? A. I say I have to learn to be quiet for the first 12 seconds.  I I had no conversation with Mr. Locke about finances. Q. That all that was all
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Sorry.  MR. LOCKE: Yeah.  BY MR. GOLOMB:  Q. Let me back up  A. At some point I understood  Q. Let let me let me back up. And I I want to I want I want to ask a very specific question, because I want you to be careful you're not telling me conversations with Mr. Locke.  So once TASA contacted you and you said yes, I'll be interested, what in in talking with somebody,	2 3 4 5 6 7 8 9 10 11 12 13 14 15	fees would be, how you would bill, and what your job was in this particular case, right?  MR. LOCKE: Objection.  THE WITNESS: I I had I've got to learn to be quiet for a minute.  BY MR. GOLOMB: Q. I'm sorry? A. I say I have to learn to be quiet for the first 12 seconds.  I I had no conversation with Mr. Locke about finances. Q. That all that was all done with TASA?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Sorry.  MR. LOCKE: Yeah.  BY MR. GOLOMB:  Q. Let me back up  A. At some point I understood  Q. Let let me let me back up. And I I want to I want I want to ask a very specific question, because I want you to be careful you're not telling me conversations with Mr. Locke.  So once TASA contacted you and you said yes, I'll be interested, what in in talking with somebody, was that somebody Mr. Locke?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	fees would be, how you would bill, and what your job was in this particular case, right?  MR. LOCKE: Objection.  THE WITNESS: I I had I've got to learn to be quiet for a minute.  BY MR. GOLOMB: Q. I'm sorry? A. I say I have to learn to be quiet for the first 12 seconds.  I I had no conversation with Mr. Locke about finances. Q. That all that was all done with TASA? A. I had no conversation with Mr. Locke about finances.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Sorry.  MR. LOCKE: Yeah.  BY MR. GOLOMB:  Q. Let me back up  A. At some point I understood  Q. Let let me let me back up. And I I want to I want I want to ask a very specific question, because I want you to be careful you're not telling me conversations with Mr. Locke.  So once TASA contacted you and you said yes, I'll be interested, what in in talking with somebody, was that somebody Mr. Locke?  A. It was either Mr. Locke or Mr. Locke's associate.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	fees would be, how you would bill, and what your job was in this particular case, right?  MR. LOCKE: Objection.  THE WITNESS: I I had I've got to learn to be quiet for a minute.  BY MR. GOLOMB: Q. I'm sorry? A. I say I have to learn to be quiet for the first 12 seconds.  I I had no conversation with Mr. Locke about finances. Q. That all that was all done with TASA? A. I had no conversation with Mr. Locke about finances. Q. My my question was, that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Sorry.  MR. LOCKE: Yeah.  BY MR. GOLOMB:  Q. Let me back up  A. At some point I understood  Q. Let let me let me back up. And I I want to I want I want to ask a very specific question, because I want you to be careful you're not telling me conversations with Mr. Locke.  So once TASA contacted you and you said yes, I'll be interested, what in in talking with somebody, was that somebody Mr. Locke?  A. It was either Mr. Locke or Mr. Locke's associate.  Q. Okay. Do you remember the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	fees would be, how you would bill, and what your job was in this particular case, right?  MR. LOCKE: Objection.  THE WITNESS: I I had I've got to learn to be quiet for a minute.  BY MR. GOLOMB: Q. I'm sorry? A. I say I have to learn to be quiet for the first 12 seconds.  I I had no conversation with Mr. Locke about finances. Q. That all that was all done with TASA? A. I had no conversation with Mr. Locke about finances. Q. My my question was, that was all done with TASA; is that correct?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Sorry.  MR. LOCKE: Yeah. BY MR. GOLOMB: Q. Let me back up A. At some point I understood Q. Let let me let me back up. And I I want to I want I want to ask a very specific question, because I want you to be careful you're not telling me conversations with Mr. Locke. So once TASA contacted you and you said yes, I'll be interested, what in in talking with somebody, was that somebody Mr. Locke? A. It was either Mr. Locke or Mr. Locke's associate. Q. Okay. Do you remember the name of Mr. Locke's associate? A. I'm sorry, I don't. Q. Okay. And then without	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	fees would be, how you would bill, and what your job was in this particular case, right?  MR. LOCKE: Objection.  THE WITNESS: I I had I've got to learn to be quiet for a minute.  BY MR. GOLOMB: Q. I'm sorry? A. I say I have to learn to be quiet for the first 12 seconds.  I I had no conversation with Mr. Locke about finances. Q. That all that was all done with TASA? A. I had no conversation with Mr. Locke about finances. Q. My my question was, that was all done with TASA; is that correct? A. My conversations were about money were with TASA. Q. Right. Your your
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39 (Pages 150 to 153)

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	Page 154		Page 156
1	your engagement, that's was	1	in connection with the Oules
2	that's was with Mr. Locke, correct?	2	litigation. You know, I'm
3	A. By parameters you mean	3	confident I don't believe that
4	Q. Of what you were going to	4	every person in this room
5	do.	5	necessarily was part of all of
6	A. We we spoke about the	6	those. But many of the parties
7	the issue, yes.	7	were here, and in fact I recognize
8	Q. Okay. So, let me just show	8	at least two lawyers who were at
9	you what I've marked as Exhibit 30.	9	the earlier deposition, two
10	(Document marked for	10	lawyers for the plaintiffs.
11	identification as Exhibit	11	So why don't I just sort of
12	Borak-30.)	12	briefly pass this around so
13	BY MR. GOLOMB:	13	everybody can see roughly what it
14	Q. And, again, I just saw this	14	is. But J&J has seen it before.
15	for the first time last night, so I don't	15	And on you can ask him whatever
16	have copies of it.	16	questions you want about it.
17	And we'll take time for	17	MR. GOLOMB: Okay. That's
18	everybody to look at this, but it is	18	fine. I just want to just
19	essentially 30-plus pages of invoices	19	not that it's really it doesn't
20	both from TASA and from Jonathan Borak &	20	really matter. It's but
21	Company. And they cover the period of	21	it's I just want to correct the
22	August 24, 2015, through April 10th of	22	record. It was not in the New
23	2017. Okay.	23	Jersey litigation. It was in the
24	A. Okay.	24	D.C. litigation.
21	A. Okay.		D.C. Ingution.
	Page 155		Page 157
			rage 137
1	MR. GOLOMB: And let's go	1	MR. LOCKE: Okay. I know
1 2	MR. GOLOMB: And let's go off the video record, please.	1 2	
		1	MR. LOCKE: Okay. I know
2	off the video record, please.	2	MR. LOCKE: Okay. I know I know that Dr. Borak was offered
2 3	off the video record, please.  MR. LOCKE: What for?	2 3	MR. LOCKE: Okay. I know I know that Dr. Borak was offered in the New Jersey litigation. He
2 3 4	off the video record, please.  MR. LOCKE: What for?  MR. GOLOMB: So that	2 3 4	MR. LOCKE: Okay. I know I know that Dr. Borak was offered in the New Jersey litigation. He drafted and produced a report in
2 3 4 5	off the video record, please.  MR. LOCKE: What for?  MR. GOLOMB: So that everybody can look at these	2 3 4 5	MR. LOCKE: Okay. I know I know that Dr. Borak was offered in the New Jersey litigation. He drafted and produced a report in that litigation.
2 3 4 5 6	off the video record, please.  MR. LOCKE: What for?  MR. GOLOMB: So that everybody can look at these invoices.	2 3 4 5 6	MR. LOCKE: Okay. I know I know that Dr. Borak was offered in the New Jersey litigation. He drafted and produced a report in that litigation.  MR. GOLOMB: That's fine.
2 3 4 5 6 7	off the video record, please.  MR. LOCKE: What for?  MR. GOLOMB: So that everybody can look at these invoices.  MR. LOCKE: Well, first, is	2 3 4 5 6 7	MR. LOCKE: Okay. I know I know that Dr. Borak was offered in the New Jersey litigation. He drafted and produced a report in that litigation. MR. GOLOMB: That's fine. BY MR. GOLOMB:
2 3 4 5 6 7 8	off the video record, please.  MR. LOCKE: What for?  MR. GOLOMB: So that everybody can look at these invoices.  MR. LOCKE: Well, first, is that a page of this?	2 3 4 5 6 7 8	MR. LOCKE: Okay. I know I know that Dr. Borak was offered in the New Jersey litigation. He drafted and produced a report in that litigation. MR. GOLOMB: That's fine. BY MR. GOLOMB: Q. So the other thing that I
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	off the video record, please.  MR. LOCKE: What for?  MR. GOLOMB: So that everybody can look at these invoices.  MR. LOCKE: Well, first, is that a page of this?  MR. GOLOMB: No, this is another page of another exhibit.  MR. LOCKE: Okay. Let me I'm not sure that everybody needs to look at it. Let me explain why.  This was produced and I say this because you're saying that the first time you saw it was last night.  I'm pretty sure that the first portion of this was produced in connection with the New Jersey Atlantic County cases.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. LOCKE: Okay. I know I know that Dr. Borak was offered in the New Jersey litigation. He drafted and produced a report in that litigation. MR. GOLOMB: That's fine. BY MR. GOLOMB: Q. So the other thing that I did last night when I got this is I MR. GOLOMB: Can we turn on the Elmo. BY MR. GOLOMB: Q. I took the bills, and I added them up. And these are the bills, the monthly bills that you produced from August 24, 2015, through April 10th of 2017. And those bills totaled \$289,701.50. MR. LOCKE: It's sideways for us, and we can't see the bottom. BY MR. GOLOMB:
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40 (Pages 154 to 157)

Jonathan Borak, M.D., DABT

	Page 158		Page 160
1	BY MR. GOLOMB:	1	2015, you you have received almost
2	Q. There you and this is my	2	\$600,000 to serve as an expert in this
3	handwriting. I apologize. And you can	3	litigation.
4	see the total there of \$289,701.50.	4	MR. HEGARTY: Objection.
5	And I'm handing you	5	MR. LOCKE: Objection.
6	Exhibit 28.	6	BY MR. GOLOMB:
7	(Document marked for	7	Q. Is that correct?
8	identification as Exhibit	8	A. I provided a number of
9	Borak-28.)	9	consulting services to Mr. Locke. I'm
10	BY MR. GOLOMB:	10	surprised by that number.
11	Q. Which is the monthly totals.	11	Q. All right. And but that
12	Is that generally consistent	12	those consulting services that you
13	with your recollection of how much you	13	provided did not include doing a
14	received to act as a consultant in this	14	meta-analysis, because you never did
15	litigation for that period of time?	15	that, correct?
16	MR. LOCKE: Whoa. Let me	16	
17		17	MR. LOCKE: Objection. THE WITNESS: I did not do a
18	just say, when you say this	18	
	litigation.	1	meta-analysis.
19	MR. GOLOMB: The talc	19	BY MR. GOLOMB:
20	litigation.	20	Q. You certainly didn't conduct
21	MR. LOCKE: Okay. All of	21	a case-control study of your own,
22	the talc litigation, whether it's	22	correct?
23	MDL, D.C., New Jersey?	23	A. I did not conduct a
24	MR. GOLOMB: Well, this is	24	case-control study of my own.
	Page 159		Page 161
1	the talc litigation from your	1	Q. You didn't conduct a cohort
2	services between August of 2015	2	study certainly?
3	and April of 2017.	3	<ul> <li>A. I did not perform a cohort</li> </ul>
4	THE WITNESS: I don't have	4	study of my own.
5	the number specifically in mind.	5	Q. And you didn't perform a
6	This is not completely out of	6	Bradford Hill analysis?
7	line.	7	A. I did not undertake a
8	BY MR. GOLOMB:	8	Bradford Hill analysis.
9	Q. Okay. We'll go into more	9	Q. Okay. And we can go through
10	detail about this later. And then,	10	the specifics of what other experts who
11	you've also produced additional bills	11	in fact did do a meta-analysis, in fact
12	from April of 2017 through February of	12	did do a Bradford Hill analysis in this
		13	case, looked at data in which ways that
13	2019, correct?	1 - 2	case, looked at data iii willeli ways that
13 14	2019, correct?  A. Probably.	14	you never looked at that data, who got a
		1	
14	A. Probably.	14	you never looked at that data, who got a fraction of what you received in this
14 15	<ul><li>A. Probably.</li><li>Q. And those bills that are</li></ul>	14 15	you never looked at that data, who got a fraction of what you received in this case. Were you aware of that?
14 15 16	A. Probably. Q. And those bills that are generated are an additional \$288,000? A. Is that right?	14 15 16	you never looked at that data, who got a fraction of what you received in this
14 15 16 17	A. Probably. Q. And those bills that are generated are an additional \$288,000? A. Is that right? Q. Yeah. We'll go through it.	14 15 16 17	you never looked at that data, who got a fraction of what you received in this case. Were you aware of that?  MR. HEGARTY: Objection.  MR. LOCKE: Objection.
14 15 16 17 18	<ul> <li>A. Probably.</li> <li>Q. And those bills that are generated are an additional \$288,000?</li> <li>A. Is that right?</li> <li>Q. Yeah. We'll go through it.</li> <li>If you want to see that now, we can do it</li> </ul>	14 15 16 17 18 19	you never looked at that data, who got a fraction of what you received in this case. Were you aware of that?  MR. HEGARTY: Objection.  MR. LOCKE: Objection.  THE WITNESS: Not
14 15 16 17 18 19 20	A. Probably. Q. And those bills that are generated are an additional \$288,000? A. Is that right? Q. Yeah. We'll go through it. If you want to see that now, we can do it now.	14 15 16 17 18 19 20	you never looked at that data, who got a fraction of what you received in this case. Were you aware of that?  MR. HEGARTY: Objection.  MR. LOCKE: Objection.  THE WITNESS: Not specifically.
14 15 16 17 18 19 20 21	A. Probably. Q. And those bills that are generated are an additional \$288,000? A. Is that right? Q. Yeah. We'll go through it. If you want to see that now, we can do it now. A. No, no, no. I do I'm	14 15 16 17 18 19 20 21	you never looked at that data, who got a fraction of what you received in this case. Were you aware of that?  MR. HEGARTY: Objection.  MR. LOCKE: Objection.  THE WITNESS: Not specifically.  BY MR. GOLOMB:
14 15 16 17 18 19 20 21	A. Probably. Q. And those bills that are generated are an additional \$288,000? A. Is that right? Q. Yeah. We'll go through it. If you want to see that now, we can do it now. A. No, no, no. I do I'm not you can show it to me or you can	14 15 16 17 18 19 20 21 22	you never looked at that data, who got a fraction of what you received in this case. Were you aware of that?  MR. HEGARTY: Objection.  MR. LOCKE: Objection.  THE WITNESS: Not specifically.  BY MR. GOLOMB:  Q. Okay. You've indicated in
14 15 16 17 18 19 20 21	A. Probably. Q. And those bills that are generated are an additional \$288,000? A. Is that right? Q. Yeah. We'll go through it. If you want to see that now, we can do it now. A. No, no, no. I do I'm	14 15 16 17 18 19 20 21	you never looked at that data, who got a fraction of what you received in this case. Were you aware of that?  MR. HEGARTY: Objection.  MR. LOCKE: Objection.  THE WITNESS: Not specifically.  BY MR. GOLOMB:

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	Page 162		Page 164
1	You've read the deposition of	1	A. That's correct.
2	Dr. Smith-Bindman. You read the	2	Q. All right. And so, while
3	deposition of Dr. Singh. You read the	3	you may have known that you were going to
4	deposition of Dr. McTiernan. Do you	4	be we well, strike that.
5	remember that?	5	The the without
6	A. Yes.	6	telling me the specifics of the
7	Q. Okay. And so and those	7	conversation, were you aware that you
8	various experts who did do meta-analysis,	8	were going to be deposed before you
9	who did Bradford Hill, they, combined,	9	produced your report?
10	didn't receive what you received in this	10	And I don't mean that you
11	case.	11	were going to be deposed before you
12	MR. LOCKE: Objection.	12	produced the report, but before you
13	MR. HEGARTY: Objection.	13	produced the report, at some time in the
14	BY MR. GOLOMB:	14	future, you were going to be deposed?
15	Q. Are you aware of that?	15	A. I expected that it was a
16	MR. LOCKE: Objection.	16	possibility.
17	MR. HEGARTY: Objection.	17	Q. And had you already provided
18	THE WITNESS: I'm not aware	18	dates for the deposition before your
19	of it. I'm not aware that they	19	report was actually produced?
20	worked as long, as many years on	20	A. It is possible that I was
21	the issue.	21	told the time span when it might happen,
22	BY MR. GOLOMB:	22	but I don't recall the particulars.
23	Q. You're not aware whether	23	Q. And what with whom I
24	they worked as the number of years?	24	don't want to know the specifics of any
	Page 163		Page 165
1	A. Yes.	1	conversation. But I just want to know
	A. 105.		CONVENSATION. Dut I fust want to know
2	MR GOLOMB: That's the	2	
2	MR. GOLOMB: That's the	2	who it was that you had the the first
3	original of 28.	3	who it was that you had the the first conversation with about your deposition
3 4	original of 28.  And this is the original of	3 4	who it was that you had the the first conversation with about your deposition here today.
3 4 5	original of 28.  And this is the original of 30.	3 4 5	who it was that you had the the first conversation with about your deposition here today.  A. You mean today's deposition?
3 4 5 6	original of 28.  And this is the original of 30. BY MR. GOLOMB:	3 4 5 6	who it was that you had the the first conversation with about your deposition here today.  A. You mean today's deposition?  Q. Yeah.
3 4 5 6 7	original of 28.  And this is the original of 30.  BY MR. GOLOMB:  Q. Let's take a look at your	3 4 5 6 7	who it was that you had the the first conversation with about your deposition here today.  A. You mean today's deposition?  Q. Yeah.  A. It was most probably with
3 4 5 6 7 8	original of 28.  And this is the original of 30.  BY MR. GOLOMB:  Q. Let's take a look at your report. But let me just ask you this.	3 4 5 6	who it was that you had the the first conversation with about your deposition here today.  A. You mean today's deposition? Q. Yeah. A. It was most probably with Mr. Locke, but I don't recall.
3 4 5 6 7 8	original of 28.  And this is the original of 30.  BY MR. GOLOMB:  Q. Let's take a look at your report. But let me just ask you this.  So first of all, when did you first learn	3 4 5 6 7 8 9	who it was that you had the the first conversation with about your deposition here today.  A. You mean today's deposition? Q. Yeah. A. It was most probably with Mr. Locke, but I don't recall. Q. And was that in by phone
3 4 5 6 7 8 9	original of 28.  And this is the original of 30.  BY MR. GOLOMB:  Q. Let's take a look at your report. But let me just ask you this.  So first of all, when did you first learn that you were going to be deposed in this	3 4 5 6 7 8 9	who it was that you had the the first conversation with about your deposition here today.  A. You mean today's deposition? Q. Yeah. A. It was most probably with Mr. Locke, but I don't recall. Q. And was that in by phone or in person?
3 4 5 6 7 8 9 10	original of 28.  And this is the original of 30.  BY MR. GOLOMB:  Q. Let's take a look at your report. But let me just ask you this. So first of all, when did you first learn that you were going to be deposed in this case?	3 4 5 6 7 8 9 10	who it was that you had the the first conversation with about your deposition here today.  A. You mean today's deposition? Q. Yeah. A. It was most probably with Mr. Locke, but I don't recall. Q. And was that in by phone or in person? A. It would have been by phone,
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3 4 5 6 7 8 9 10 11 12 13	original of 28.  And this is the original of 30.  BY MR. GOLOMB:  Q. Let's take a look at your report. But let me just ask you this. So first of all, when did you first learn that you were going to be deposed in this case?  MR. LOCKE: When you say this case, are you talking about the MDL?	3 4 5 6 7 8 9 10 11 12 13	who it was that you had the the first conversation with about your deposition here today.  A. You mean today's deposition? Q. Yeah. A. It was most probably with Mr. Locke, but I don't recall. Q. And was that in by phone or in person? A. It would have been by phone, probably. Q. And did you was how long did that conversation last?
3 4 5 6 7 8 9 10 11 12 13 14	original of 28.  And this is the original of 30.  BY MR. GOLOMB:  Q. Let's take a look at your report. But let me just ask you this. So first of all, when did you first learn that you were going to be deposed in this case?  MR. LOCKE: When you say this case, are you talking about the MDL?  MR. GOLOMB: In the MDL.	3 4 5 6 7 8 9 10 11 12 13 14	who it was that you had the the first conversation with about your deposition here today.  A. You mean today's deposition? Q. Yeah. A. It was most probably with Mr. Locke, but I don't recall. Q. And was that in by phone or in person? A. It would have been by phone, probably. Q. And did you was how long did that conversation last? A. I have no recall.
3 4 5 6 7 8 9 10 11 12 13 14 15	original of 28.  And this is the original of 30.  BY MR. GOLOMB:  Q. Let's take a look at your report. But let me just ask you this. So first of all, when did you first learn that you were going to be deposed in this case?  MR. LOCKE: When you say this case, are you talking about the MDL?	3 4 5 6 7 8 9 10 11 12 13 14	who it was that you had the the first conversation with about your deposition here today.  A. You mean today's deposition? Q. Yeah. A. It was most probably with Mr. Locke, but I don't recall. Q. And was that in by phone or in person? A. It would have been by phone, probably. Q. And did you was how long did that conversation last? A. I have no recall. Q. Okay. Is that something you
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	original of 28.  And this is the original of 30.  BY MR. GOLOMB:  Q. Let's take a look at your report. But let me just ask you this. So first of all, when did you first learn that you were going to be deposed in this case?  MR. LOCKE: When you say this case, are you talking about the MDL?  MR. GOLOMB: In the MDL.  THE WITNESS: I don't recall.  BY MR. GOLOMB:  Q. Well, was it a month ago, two months ago, three months ago?  A. At some point I was asked to	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	who it was that you had the the first conversation with about your deposition here today.  A. You mean today's deposition? Q. Yeah. A. It was most probably with Mr. Locke, but I don't recall. Q. And was that in by phone or in person? A. It would have been by phone, probably. Q. And did you was how long did that conversation last? A. I have no recall. Q. Okay. Is that something you would have billed for? A. Probably not. But I don't know.
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	original of 28.  And this is the original of 30.  BY MR. GOLOMB:  Q. Let's take a look at your report. But let me just ask you this. So first of all, when did you first learn that you were going to be deposed in this case?  MR. LOCKE: When you say this case, are you talking about the MDL?  MR. GOLOMB: In the MDL.  THE WITNESS: I don't recall.  BY MR. GOLOMB:  Q. Well, was it a month ago, two months ago, three months ago?  A. At some point I was asked to	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	who it was that you had the the first conversation with about your deposition here today.  A. You mean today's deposition? Q. Yeah. A. It was most probably with Mr. Locke, but I don't recall. Q. And was that in by phone or in person? A. It would have been by phone, probably. Q. And did you was how long did that conversation last? A. I have no recall. Q. Okay. Is that something you would have billed for? A. Probably not. But I don't know. Q. If you had a do you understand what I mean if I if I refer to a conversation as to discuss

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	Page 166		Page 168
1	mean, but I'm not sure that I do.	1	Q. Anybody else?
2	Q. Okay. Logistics, they want	2	A. Well, not participating in
3	to take your deposition, why don't you	3	that meeting.
4	look at your calendar, get me some dates,	4	Q. Okay. You hesitated. What
5	I'll get and get back to me.	5	do you mean?
6	A. That's logistics.	6	A. I well, I mean, my
7	Q. That's logistics.	7	librarian was there, my office manager,
8	A. Okay.	8	people like that, that's not what you're
9	Q. Dates is talking about the	9	asking me. My wife came in at some point
10	substance of of your deposition	10	and said hello to him.
11	testimony, what they may ask, what you	11	Q. Okay. Did any of those
12	should review?	12	other people participate in the substance
13	A. And that's an example of?	13	of the meeting?
14	Q. That's substance.	14	A. No.
15	A. Substance, okay.	15	Q. All right. And how long did
16	Q. Okay?	16	the the telephone conversations take
17	A. Yes.	17	place?
18	Q. So if you had a if you	18	A. I specifically do not
19	had a logistics question, is that	19	remember.
20	something that you would bill for?	20	Q. Is would you have billed
21	A. No.	21	for those conversations?
22	Q. If you had a substance	22	A. If they were short
23	question, is that something you would	23	conversations, no. If Mr. Locke said I'd
24	bill for?	24	like to talk to you for an hour or two
21	om for:	24	like to talk to you for all flour of two
	Page 167		P 160
	rage 107		Page 169
1	A. It would depend on	1	hours, then yes.
1 2		1 2	
	A. It would depend on		hours, then yes.
2	A. It would depend on Q. I'm sorry, a substance	2	hours, then yes. Q. Did you have hour,
2	A. It would depend on Q. I'm sorry, a substance conversation.	2 3	hours, then yes.  Q. Did you have hour, two-hour-long conversations with
2 3 4	<ul><li>A. It would depend on</li><li>Q. I'm sorry, a substance conversation.</li><li>A. It would depend upon the</li></ul>	2 3 4	hours, then yes.  Q. Did you have hour, two-hour-long conversations with Mr. Locke?
2 3 4 5	<ul> <li>A. It would depend on</li> <li>Q. I'm sorry, a substance conversation.</li> <li>A. It would depend upon the length of time and whether it required</li> </ul>	2 3 4 5	hours, then yes.  Q. Did you have hour, two-hour-long conversations with Mr. Locke?  A. It's possible, but I don't
2 3 4 5 6	<ul> <li>A. It would depend on</li> <li>Q. I'm sorry, a substance conversation.</li> <li>A. It would depend upon the length of time and whether it required preparation.</li> </ul>	2 3 4 5 6	hours, then yes.  Q. Did you have hour, two-hour-long conversations with Mr. Locke?  A. It's possible, but I don't specifically remember.
2 3 4 5 6 7	<ul> <li>A. It would depend on</li> <li>Q. I'm sorry, a substance conversation.</li> <li>A. It would depend upon the length of time and whether it required preparation.</li> <li>Q. Okay. How many</li> </ul>	2 3 4 5 6 7	hours, then yes.  Q. Did you have hour, two-hour-long conversations with Mr. Locke?  A. It's possible, but I don't specifically remember. Q. Okay. Now, when you when
2 3 4 5 6 7 8	<ul> <li>A. It would depend on</li> <li>Q. I'm sorry, a substance</li> <li>conversation.</li> <li>A. It would depend upon the length of time and whether it required preparation.</li> <li>Q. Okay. How many</li> <li>conversations, either by phone or in</li> </ul>	2 3 4 5 6 7 8	hours, then yes. Q. Did you have hour, two-hour-long conversations with Mr. Locke? A. It's possible, but I don't specifically remember. Q. Okay. Now, when you when you looked at, as brief as it was, when
2 3 4 5 6 7 8 9	<ul> <li>A. It would depend on</li> <li>Q. I'm sorry, a substance</li> <li>conversation.</li> <li>A. It would depend upon the length of time and whether it required preparation.</li> <li>Q. Okay. How many</li> <li>conversations, either by phone or in person, did you have to prepare for your</li> </ul>	2 3 4 5 6 7 8 9	hours, then yes.  Q. Did you have hour, two-hour-long conversations with Mr. Locke?  A. It's possible, but I don't specifically remember.  Q. Okay. Now, when you when you looked at, as brief as it was, when you looked at the bills pre April of
2 3 4 5 6 7 8 9	A. It would depend on Q. I'm sorry, a substance conversation. A. It would depend upon the length of time and whether it required preparation. Q. Okay. How many conversations, either by phone or in person, did you have to prepare for your deposition?	2 3 4 5 6 7 8 9	hours, then yes.  Q. Did you have hour, two-hour-long conversations with Mr. Locke?  A. It's possible, but I don't specifically remember.  Q. Okay. Now, when you when you looked at, as brief as it was, when you looked at the bills pre April of 2017, you can see that there are not only
2 3 4 5 6 7 8 9 10	A. It would depend on Q. I'm sorry, a substance conversation. A. It would depend upon the length of time and whether it required preparation. Q. Okay. How many conversations, either by phone or in person, did you have to prepare for your deposition? A. I don't recall a specific	2 3 4 5 6 7 8 9 10	hours, then yes.  Q. Did you have hour, two-hour-long conversations with Mr. Locke?  A. It's possible, but I don't specifically remember.  Q. Okay. Now, when you when you looked at, as brief as it was, when you looked at the bills pre April of 2017, you can see that there are not only TASA bills, but bills from Jonathan
2 3 4 5 6 7 8 9 10 11	A. It would depend on Q. I'm sorry, a substance conversation. A. It would depend upon the length of time and whether it required preparation. Q. Okay. How many conversations, either by phone or in person, did you have to prepare for your deposition? A. I don't recall a specific number.	2 3 4 5 6 7 8 9 10 11 12	hours, then yes.  Q. Did you have hour, two-hour-long conversations with Mr. Locke?  A. It's possible, but I don't specifically remember.  Q. Okay. Now, when you when you looked at, as brief as it was, when you looked at the bills pre April of 2017, you can see that there are not only TASA bills, but bills from Jonathan Borak & Company, correct?
2 3 4 5 6 7 8 9 10 11 12 13	A. It would depend on Q. I'm sorry, a substance conversation. A. It would depend upon the length of time and whether it required preparation. Q. Okay. How many conversations, either by phone or in person, did you have to prepare for your deposition? A. I don't recall a specific number. Q. Generally.	2 3 4 5 6 7 8 9 10 11 12 13	hours, then yes.  Q. Did you have hour, two-hour-long conversations with Mr. Locke?  A. It's possible, but I don't specifically remember.  Q. Okay. Now, when you when you looked at, as brief as it was, when you looked at the bills pre April of 2017, you can see that there are not only TASA bills, but bills from Jonathan Borak & Company, correct?  A. I haven't looked, but I
2 3 4 5 6 7 8 9 10 11 12 13	A. It would depend on Q. I'm sorry, a substance conversation. A. It would depend upon the length of time and whether it required preparation. Q. Okay. How many conversations, either by phone or in person, did you have to prepare for your deposition? A. I don't recall a specific number. Q. Generally. A. Mr. Locke was in New Haven	2 3 4 5 6 7 8 9 10 11 12 13 14	hours, then yes.  Q. Did you have hour, two-hour-long conversations with Mr. Locke?  A. It's possible, but I don't specifically remember.  Q. Okay. Now, when you when you looked at, as brief as it was, when you looked at the bills pre April of 2017, you can see that there are not only TASA bills, but bills from Jonathan Borak & Company, correct?  A. I haven't looked, but I accept what you say. I don't
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. It would depend on Q. I'm sorry, a substance conversation. A. It would depend upon the length of time and whether it required preparation. Q. Okay. How many conversations, either by phone or in person, did you have to prepare for your deposition? A. I don't recall a specific number. Q. Generally. A. Mr. Locke was in New Haven for two half days. And we may have	2 3 4 5 6 7 8 9 10 11 12 13 14 15	hours, then yes.  Q. Did you have hour, two-hour-long conversations with Mr. Locke?  A. It's possible, but I don't specifically remember.  Q. Okay. Now, when you when you looked at, as brief as it was, when you looked at the bills pre April of 2017, you can see that there are not only TASA bills, but bills from Jonathan Borak & Company, correct?  A. I haven't looked, but I accept what you say. I don't understand that looked more like mine.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. It would depend on Q. I'm sorry, a substance conversation. A. It would depend upon the length of time and whether it required preparation. Q. Okay. How many conversations, either by phone or in person, did you have to prepare for your deposition? A. I don't recall a specific number. Q. Generally. A. Mr. Locke was in New Haven for two half days. And we may have spoken another two or three times. I spoke with him last night, but that was	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	hours, then yes.  Q. Did you have hour, two-hour-long conversations with Mr. Locke?  A. It's possible, but I don't specifically remember.  Q. Okay. Now, when you when you looked at, as brief as it was, when you looked at the bills pre April of 2017, you can see that there are not only TASA bills, but bills from Jonathan Borak & Company, correct?  A. I haven't looked, but I accept what you say. I don't understand that looked more like mine. Okay. Yes, I see some that look like they are mine. I
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. It would depend on Q. I'm sorry, a substance conversation. A. It would depend upon the length of time and whether it required preparation. Q. Okay. How many conversations, either by phone or in person, did you have to prepare for your deposition? A. I don't recall a specific number. Q. Generally. A. Mr. Locke was in New Haven for two half days. And we may have spoken another two or three times. I spoke with him last night, but that was largely to say are you comfortable.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	hours, then yes.  Q. Did you have hour, two-hour-long conversations with Mr. Locke?  A. It's possible, but I don't specifically remember.  Q. Okay. Now, when you when you looked at, as brief as it was, when you looked at the bills pre April of 2017, you can see that there are not only TASA bills, but bills from Jonathan Borak & Company, correct?  A. I haven't looked, but I accept what you say. I don't understand that looked more like mine. Okay. Yes, I see some that look like they are mine. I Q. Now, have you ever have
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. It would depend on Q. I'm sorry, a substance conversation. A. It would depend upon the length of time and whether it required preparation. Q. Okay. How many conversations, either by phone or in person, did you have to prepare for your deposition? A. I don't recall a specific number. Q. Generally. A. Mr. Locke was in New Haven for two half days. And we may have spoken another two or three times. I spoke with him last night, but that was largely to say are you comfortable. Q. The the two in the two	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	hours, then yes.  Q. Did you have hour, two-hour-long conversations with Mr. Locke?  A. It's possible, but I don't specifically remember.  Q. Okay. Now, when you when you looked at, as brief as it was, when you looked at the bills pre April of 2017, you can see that there are not only TASA bills, but bills from Jonathan Borak & Company, correct?  A. I haven't looked, but I accept what you say. I don't understand that looked more like mine. Okay. Yes, I see some that look like they are mine. I  Q. Now, have you ever have you ever seen those TASA bills before
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. It would depend on Q. I'm sorry, a substance conversation.  A. It would depend upon the length of time and whether it required preparation. Q. Okay. How many conversations, either by phone or in person, did you have to prepare for your deposition? A. I don't recall a specific number. Q. Generally. A. Mr. Locke was in New Haven for two half days. And we may have spoken another two or three times. I spoke with him last night, but that was largely to say are you comfortable. Q. The the two in the two in-person meetings, where did they take	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	hours, then yes.  Q. Did you have hour, two-hour-long conversations with Mr. Locke?  A. It's possible, but I don't specifically remember.  Q. Okay. Now, when you when you looked at, as brief as it was, when you looked at the bills pre April of 2017, you can see that there are not only TASA bills, but bills from Jonathan Borak & Company, correct?  A. I haven't looked, but I accept what you say. I don't understand that looked more like mine. Okay. Yes, I see some that look like they are mine. I  Q. Now, have you ever have you ever seen those TASA bills before June 8, 2017, when Mr. Green took your
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. It would depend on Q. I'm sorry, a substance conversation.  A. It would depend upon the length of time and whether it required preparation.  Q. Okay. How many conversations, either by phone or in person, did you have to prepare for your deposition?  A. I don't recall a specific number.  Q. Generally.  A. Mr. Locke was in New Haven for two half days. And we may have spoken another two or three times. I spoke with him last night, but that was largely to say are you comfortable.  Q. The the two in the two in-person meetings, where did they take place?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	hours, then yes.  Q. Did you have hour, two-hour-long conversations with Mr. Locke?  A. It's possible, but I don't specifically remember.  Q. Okay. Now, when you when you looked at, as brief as it was, when you looked at the bills pre April of 2017, you can see that there are not only TASA bills, but bills from Jonathan Borak & Company, correct?  A. I haven't looked, but I accept what you say. I don't understand that looked more like mine. Okay. Yes, I see some that look like they are mine. I  Q. Now, have you ever have you ever seen those TASA bills before
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. It would depend on Q. I'm sorry, a substance conversation. A. It would depend upon the length of time and whether it required preparation. Q. Okay. How many conversations, either by phone or in person, did you have to prepare for your deposition? A. I don't recall a specific number. Q. Generally. A. Mr. Locke was in New Haven for two half days. And we may have spoken another two or three times. I spoke with him last night, but that was largely to say are you comfortable. Q. The the two in the two in-person meetings, where did they take place? A. In my office.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	hours, then yes.  Q. Did you have hour, two-hour-long conversations with Mr. Locke?  A. It's possible, but I don't specifically remember.  Q. Okay. Now, when you when you looked at, as brief as it was, when you looked at the bills pre April of 2017, you can see that there are not only TASA bills, but bills from Jonathan Borak & Company, correct?  A. I haven't looked, but I accept what you say. I don't understand that looked more like mine. Okay. Yes, I see some that look like they are mine. I  Q. Now, have you ever have you ever seen those TASA bills before June 8, 2017, when Mr. Green took your deposition?  A. No.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. It would depend on Q. I'm sorry, a substance conversation.  A. It would depend upon the length of time and whether it required preparation.  Q. Okay. How many conversations, either by phone or in person, did you have to prepare for your deposition?  A. I don't recall a specific number.  Q. Generally.  A. Mr. Locke was in New Haven for two half days. And we may have spoken another two or three times. I spoke with him last night, but that was largely to say are you comfortable.  Q. The the two in the two in-person meetings, where did they take place?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	hours, then yes.  Q. Did you have hour, two-hour-long conversations with Mr. Locke?  A. It's possible, but I don't specifically remember.  Q. Okay. Now, when you when you looked at, as brief as it was, when you looked at the bills pre April of 2017, you can see that there are not only TASA bills, but bills from Jonathan Borak & Company, correct?  A. I haven't looked, but I accept what you say. I don't understand that looked more like mine. Okay. Yes, I see some that look like they are mine. I  Q. Now, have you ever have you ever seen those TASA bills before June 8, 2017, when Mr. Green took your deposition?  A. No.

43 (Pages 166 to 169)

	Page 170		Page 172
1	A. Not until you put them here	1	were two meetings and three or so phone
2	on the table.	2	conversations?
3	Q. Okay. And I would assume,	3	A. That sounds right. I mean,
4	correct me if I am wrong, that like that,	4	about that.
5	that period of time from 2015 through	5	Q. Okay. So let let's take
6	April of 2017, that since 2017, there are	6	a look at your report which we've marked
7	also Jonathan Borak & Company, bills?	7	as Exhibit 7.
8	A. Yes.	8	(Document marked for
9	Q. Okay. They haven't been	9	identification as Exhibit
10	produced to us.	10	Borak-7.)
11	MR. LOCKE: That's	11	THE WITNESS: Thank you.
12	incorrect.	12	BY MR. GOLOMB:
13	MR. GOLOMB: When were they	13	Q. And this is a two-sided copy
14	produced?	14	of your report Pages 1 through 13, which
15	MR. LOCKE: Last week after	15	is the on Page 13, is your your
16	we got your notice of deposition.	16	signature?
17	MR. GOLOMB: Okay. Who were	17	MR. HEGARTY: Mine goes 1
18	they produced to?	18	through 14.
19	MR. LOCKE: Mr. Green. And	19	MR. LOCKE: Yeah, it goes
20	Leigh O'Dell, Michelle Parfitt.	20	through 14, and it
21	MR GOLOMB: Okay.	21	MR. GOLOMB: Well, it's
22	MR. LOCKE: And a handful of	22	two-sided because so it goes on
23	other Chris Tisi.	23	to the next attachment. But
24	MR. GOLOMB: All right.	24	the the report is Pages 1
21	wite, GOLOWD. All right.		the the report is 1 ages 1
	Page 171		Page 173
1	Well, during a break we'll I	1	through 13.
2	have not seen those bills. And so	2	MR. LOCKE: Okay. You are
3	I have the TASA bills from	3	not including the reference
4	April 26, 2017, through	4	list and
5	February 25, 2019.	5	MR. GOLOMB: I'm not
6	BY MR. GOLOMB:	6	including the reference list.
7	Q. Have you generated a bill	7	That's a separate exhibit.
8	since 2 since February 25, 2019?	8	THE WITNESS: Yes, that
9	A. I don't think so, but I	9	looks like my handwriting.
10	don't know.	10	BY MR. GOLOMB:
			BT MIK. GOLOMB.
11	Q. Okay. Do you know how many	11	
	Q. Okay. Do you know how many	11 12	Q. All right. And did you
11			Q. All right. And did you prepare the report yourself?
11 12	Q. Okay. Do you know how many hours you spent in the in the month of March on the on this on the talc	12	<ul><li>Q. All right. And did you</li><li>prepare the report yourself?</li><li>A. Yes, mostly. I also made</li></ul>
11 12 13	Q. Okay. Do you know how many hours you spent in the in the month of	12 13	Q. All right. And did you prepare the report yourself? A. Yes, mostly. I also made the mistake myself.
11 12 13 14	Q. Okay. Do you know how many hours you spent in the in the month of March on the on this on the talc litigation?	12 13 14	<ul><li>Q. All right. And did you prepare the report yourself?</li><li>A. Yes, mostly. I also made the mistake myself.</li><li>Q. When you say yes mostly,</li></ul>
11 12 13 14 15	Q. Okay. Do you know how many hours you spent in the in the month of March on the on this on the talc litigation?  A. The first two weeks of March I actually was on vacation. So that	12 13 14 15	Q. All right. And did you prepare the report yourself? A. Yes, mostly. I also made the mistake myself. Q. When you say yes mostly, what do you mean?
11 12 13 14 15 16	Q. Okay. Do you know how many hours you spent in the in the month of March on the on this on the talc litigation?  A. The first two weeks of March I actually was on vacation. So that immediately truncates the month.	12 13 14 15 16	Q. All right. And did you prepare the report yourself? A. Yes, mostly. I also made the mistake myself. Q. When you say yes mostly, what do you mean? A. I probably had somebody in
11 12 13 14 15 16 17	Q. Okay. Do you know how many hours you spent in the in the month of March on the on this on the talc litigation?  A. The first two weeks of March I actually was on vacation. So that immediately truncates the month.  I spent two I mean, there	12 13 14 15 16 17 18	Q. All right. And did you prepare the report yourself? A. Yes, mostly. I also made the mistake myself. Q. When you say yes mostly, what do you mean? A. I probably had somebody in my office review it for typos and and
11 12 13 14 15 16 17	Q. Okay. Do you know how many hours you spent in the in the month of March on the on this on the talc litigation?  A. The first two weeks of March I actually was on vacation. So that immediately truncates the month.  I spent two I mean, there were these two days in which Mr. Locke	12 13 14 15 16 17 18 19	Q. All right. And did you prepare the report yourself? A. Yes, mostly. I also made the mistake myself. Q. When you say yes mostly, what do you mean? A. I probably had somebody in my office review it for typos and and other things like that. But I did the
11 12 13 14 15 16 17 18	Q. Okay. Do you know how many hours you spent in the in the month of March on the on this on the talc litigation?  A. The first two weeks of March I actually was on vacation. So that immediately truncates the month.  I spent two I mean, there were these two days in which Mr. Locke was in New Haven. And I probably put in	12 13 14 15 16 17 18 19 20	Q. All right. And did you prepare the report yourself?  A. Yes, mostly. I also made the mistake myself.  Q. When you say yes mostly, what do you mean?  A. I probably had somebody in my office review it for typos and and other things like that. But I did the writing.
11 12 13 14 15 16 17 18 19 20	Q. Okay. Do you know how many hours you spent in the in the month of March on the on this on the talc litigation?  A. The first two weeks of March I actually was on vacation. So that immediately truncates the month.  I spent two I mean, there were these two days in which Mr. Locke was in New Haven. And I probably put in a day prior to that. And I put in some	12 13 14 15 16 17 18 19 20 21	Q. All right. And did you prepare the report yourself? A. Yes, mostly. I also made the mistake myself. Q. When you say yes mostly, what do you mean? A. I probably had somebody in my office review it for typos and and other things like that. But I did the writing. Q. And did did you write
11 12 13 14 15 16 17 18 19 20 21	Q. Okay. Do you know how many hours you spent in the in the month of March on the on this on the talc litigation?  A. The first two weeks of March I actually was on vacation. So that immediately truncates the month.  I spent two I mean, there were these two days in which Mr. Locke was in New Haven. And I probably put in a day prior to that. And I put in some time in preparation for today. I don't	12 13 14 15 16 17 18 19 20 21 22	Q. All right. And did you prepare the report yourself? A. Yes, mostly. I also made the mistake myself. Q. When you say yes mostly, what do you mean? A. I probably had somebody in my office review it for typos and and other things like that. But I did the writing. Q. And did did you write every word of it?
11 12 13 14 15 16 17 18 19 20 21 22	Q. Okay. Do you know how many hours you spent in the in the month of March on the on this on the talc litigation?  A. The first two weeks of March I actually was on vacation. So that immediately truncates the month.  I spent two I mean, there were these two days in which Mr. Locke was in New Haven. And I probably put in a day prior to that. And I put in some	12 13 14 15 16 17 18 19 20 21	Q. All right. And did you prepare the report yourself? A. Yes, mostly. I also made the mistake myself. Q. When you say yes mostly, what do you mean? A. I probably had somebody in my office review it for typos and and other things like that. But I did the writing. Q. And did did you write

44 (Pages 170 to 173)

		Ι	
	Page 174		Page 176
1	A. It's an ongoing process. I	1	a list. One will be a printout that
2	don't write it in one sitting so that	2	says, "Ovarian cancer, January, 2019."
3	from day-to-day it continues.	3	It may be 600 articles.
4	Q. Okay. So from day-to-day,	4	Q. Okay. But that's my
5	it may continue from and I'm being	5	point is, that's something that started
6	very simplistic about this, but it may	6	after you were retained as a consultant
7	continue from Page 1 to Page 2 to Page 3	7	in this case. That's not something
8	until you ultimately get to your	8	A. Oh, yes. I was not
9	conclusions on Page 13, correct?	9	Q. Let me just finish the
10	A. Yes, that's right.	10	question
11	Q. And how long does that	11	A. Sorry. You're right.
12	process take?	12	Q for the court reporter.
13	A. Weeks. I don't know the	13	That's not something that you did before
14	answer. It depends upon you're saying	14	you were acting as a paid consultant in
15	for this report or for a report when I	15	this case, correct?
16	write one?	16	MR. LOCKE: Objection.
17	Q. In this report.	17	MR. HEGARTY: Objection.
18	A. This report began with a	18	THE WITNESS: I did not do
19	previous report and was then extended out	19	that prior to becoming involved in
20	in time, and much of the process of	20	this case, not this case, in the
21	preparing this report was not physically	21	subject.
22	preparing this report was not physically preparing the report, but keeping up with	22	BY MR. GOLOMB:
23	the literature on a monthly basis to see	23	Q. In the in the talc
24	whether anything had changed and what had	24	litigation.
	whether anything had changed and what had		magarion
		1	
	Page 175		Page 177
1	Page 175 accumulated.	1	Page 177  A. In the subject of talc. To
1 2		1 2	
	accumulated. Q. Okay.		A. In the subject of talc. To
2	accumulated. Q. Okay.	2	A. In the subject of talc. To the best of my recollection, sir, I was not specifically retained in a
2 3	accumulated. Q. Okay. A. So if you're asking me how long did it take to write this	2	A. In the subject of talc. To the best of my recollection, sir, I was
2 3 4	accumulated. Q. Okay. A. So if you're asking me how	2 3 4	A. In the subject of talc. To the best of my recollection, sir, I was not specifically retained in a litigation. I was initially involved in
2 3 4 5	accumulated. Q. Okay. A. So if you're asking me how long did it take to write this physically, that's in some number of	2 3 4 5	A. In the subject of talc. To the best of my recollection, sir, I was not specifically retained in a litigation. I was initially involved in the issue of talc.
2 3 4 5 6	accumulated. Q. Okay. A. So if you're asking me how long did it take to write this physically, that's in some number of hours. But it was a lot of time spent in	2 3 4 5 6	A. In the subject of talc. To the best of my recollection, sir, I was not specifically retained in a litigation. I was initially involved in the issue of talc.  Q. Okay. And so but my
2 3 4 5 6 7	accumulated. Q. Okay. A. So if you're asking me how long did it take to write this physically, that's in some number of hours. But it was a lot of time spent in determining what I was going to write.	2 3 4 5 6 7	A. In the subject of talc. To the best of my recollection, sir, I was not specifically retained in a litigation. I was initially involved in the issue of talc.  Q. Okay. And so but my point is, is that your instruction to
2 3 4 5 6 7 8	accumulated. Q. Okay. A. So if you're asking me how long did it take to write this physically, that's in some number of hours. But it was a lot of time spent in determining what I was going to write. And part of it, just so you understand my	2 3 4 5 6 7 8	A. In the subject of talc. To the best of my recollection, sir, I was not specifically retained in a litigation. I was initially involved in the issue of talc.  Q. Okay. And so but my point is, is that your instruction to your librarian to start this list and
2 3 4 5 6 7 8 9	accumulated. Q. Okay. A. So if you're asking me how long did it take to write this physically, that's in some number of hours. But it was a lot of time spent in determining what I was going to write. And part of it, just so you understand my process, is that I have a librarian who	2 3 4 5 6 7 8 9	A. In the subject of talc. To the best of my recollection, sir, I was not specifically retained in a litigation. I was initially involved in the issue of talc.  Q. Okay. And so but my point is, is that your instruction to your librarian to start this list and pulling this literature did not happen
2 3 4 5 6 7 8 9	accumulated. Q. Okay. A. So if you're asking me how long did it take to write this physically, that's in some number of hours. But it was a lot of time spent in determining what I was going to write. And part of it, just so you understand my process, is that I have a librarian who pulls the literature monthly on talc,	2 3 4 5 6 7 8 9	A. In the subject of talc. To the best of my recollection, sir, I was not specifically retained in a litigation. I was initially involved in the issue of talc.  Q. Okay. And so but my point is, is that your instruction to your librarian to start this list and pulling this literature did not happen before April of May of 2015 when you
2 3 4 5 6 7 8 9 10	accumulated. Q. Okay. A. So if you're asking me how long did it take to write this physically, that's in some number of hours. But it was a lot of time spent in determining what I was going to write. And part of it, just so you understand my process, is that I have a librarian who pulls the literature monthly on talc, talc and cancer, ovarian cancer, and I	2 3 4 5 6 7 8 9 10	A. In the subject of talc. To the best of my recollection, sir, I was not specifically retained in a litigation. I was initially involved in the issue of talc.  Q. Okay. And so but my point is, is that your instruction to your librarian to start this list and pulling this literature did not happen before April of May of 2015 when you were first contacted to work as a
2 3 4 5 6 7 8 9 10 11 12	accumulated. Q. Okay. A. So if you're asking me how long did it take to write this physically, that's in some number of hours. But it was a lot of time spent in determining what I was going to write. And part of it, just so you understand my process, is that I have a librarian who pulls the literature monthly on talc, talc and cancer, ovarian cancer, and I get summaries of the literature from the	2 3 4 5 6 7 8 9 10 11 12	A. In the subject of talc. To the best of my recollection, sir, I was not specifically retained in a litigation. I was initially involved in the issue of talc.  Q. Okay. And so but my point is, is that your instruction to your librarian to start this list and pulling this literature did not happen before April of May of 2015 when you were first contacted to work as a consultant in this case.
2 3 4 5 6 7 8 9 10 11 12 13	accumulated. Q. Okay. A. So if you're asking me how long did it take to write this physically, that's in some number of hours. But it was a lot of time spent in determining what I was going to write. And part of it, just so you understand my process, is that I have a librarian who pulls the literature monthly on talc, talc and cancer, ovarian cancer, and I get summaries of the literature from the National Library of Medicine. You've	2 3 4 5 6 7 8 9 10 11 12 13	A. In the subject of talc. To the best of my recollection, sir, I was not specifically retained in a litigation. I was initially involved in the issue of talc.  Q. Okay. And so but my point is, is that your instruction to your librarian to start this list and pulling this literature did not happen before April of May of 2015 when you were first contacted to work as a consultant in this case.  A. Yes, I think that's correct.
2 3 4 5 6 7 8 9 10 11 12 13	accumulated. Q. Okay. A. So if you're asking me how long did it take to write this physically, that's in some number of hours. But it was a lot of time spent in determining what I was going to write. And part of it, just so you understand my process, is that I have a librarian who pulls the literature monthly on talc, talc and cancer, ovarian cancer, and I get summaries of the literature from the National Library of Medicine. You've used this also, I'm sure. And I go	2 3 4 5 6 7 8 9 10 11 12 13 14	A. In the subject of talc. To the best of my recollection, sir, I was not specifically retained in a litigation. I was initially involved in the issue of talc.  Q. Okay. And so but my point is, is that your instruction to your librarian to start this list and pulling this literature did not happen before April of May of 2015 when you were first contacted to work as a consultant in this case.  A. Yes, I think that's correct.  Q. All right.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	accumulated.  Q. Okay.  A. So if you're asking me how long did it take to write this physically, that's in some number of hours. But it was a lot of time spent in determining what I was going to write. And part of it, just so you understand my process, is that I have a librarian who pulls the literature monthly on talc, talc and cancer, ovarian cancer, and I get summaries of the literature from the National Library of Medicine. You've used this also, I'm sure. And I go through them and I determine anything	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. In the subject of talc. To the best of my recollection, sir, I was not specifically retained in a litigation. I was initially involved in the issue of talc.  Q. Okay. And so but my point is, is that your instruction to your librarian to start this list and pulling this literature did not happen before April of May of 2015 when you were first contacted to work as a consultant in this case.  A. Yes, I think that's correct. Q. All right. A. But the answer to your
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	accumulated. Q. Okay. A. So if you're asking me how long did it take to write this physically, that's in some number of hours. But it was a lot of time spent in determining what I was going to write. And part of it, just so you understand my process, is that I have a librarian who pulls the literature monthly on talc, talc and cancer, ovarian cancer, and I get summaries of the literature from the National Library of Medicine. You've used this also, I'm sure. And I go through them and I determine anything that seems as though it might be relevant	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. In the subject of talc. To the best of my recollection, sir, I was not specifically retained in a litigation. I was initially involved in the issue of talc.  Q. Okay. And so but my point is, is that your instruction to your librarian to start this list and pulling this literature did not happen before April of May of 2015 when you were first contacted to work as a consultant in this case.  A. Yes, I think that's correct. Q. All right. A. But the answer to your question was how long it takes to write
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	accumulated. Q. Okay. A. So if you're asking me how long did it take to write this physically, that's in some number of hours. But it was a lot of time spent in determining what I was going to write. And part of it, just so you understand my process, is that I have a librarian who pulls the literature monthly on talc, talc and cancer, ovarian cancer, and I get summaries of the literature from the National Library of Medicine. You've used this also, I'm sure. And I go through them and I determine anything that seems as though it might be relevant to answering the question that I was originally asked.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. In the subject of talc. To the best of my recollection, sir, I was not specifically retained in a litigation. I was initially involved in the issue of talc.  Q. Okay. And so but my point is, is that your instruction to your librarian to start this list and pulling this literature did not happen before April of May of 2015 when you were first contacted to work as a consultant in this case.  A. Yes, I think that's correct. Q. All right. A. But the answer to your question was how long it takes to write this. And I was explaining that on a
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	accumulated.  Q. Okay.  A. So if you're asking me how long did it take to write this physically, that's in some number of hours. But it was a lot of time spent in determining what I was going to write. And part of it, just so you understand my process, is that I have a librarian who pulls the literature monthly on talc, talc and cancer, ovarian cancer, and I get summaries of the literature from the National Library of Medicine. You've used this also, I'm sure. And I go through them and I determine anything that seems as though it might be relevant to answering the question that I was originally asked.  Q. Now, you said that your librarian pulls the talc-related	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. In the subject of talc. To the best of my recollection, sir, I was not specifically retained in a litigation. I was initially involved in the issue of talc.  Q. Okay. And so but my point is, is that your instruction to your librarian to start this list and pulling this literature did not happen before April of May of 2015 when you were first contacted to work as a consultant in this case.  A. Yes, I think that's correct. Q. All right. A. But the answer to your question was how long it takes to write this. And I was explaining that on a monthly basis, I go through this literature, which is germane to this report. And on a monthly basis, I note that which would be added to update the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	accumulated.  Q. Okay.  A. So if you're asking me how long did it take to write this physically, that's in some number of hours. But it was a lot of time spent in determining what I was going to write. And part of it, just so you understand my process, is that I have a librarian who pulls the literature monthly on talc, talc and cancer, ovarian cancer, and I get summaries of the literature from the National Library of Medicine. You've used this also, I'm sure. And I go through them and I determine anything that seems as though it might be relevant to answering the question that I was originally asked.  Q. Now, you said that your librarian pulls the talc-related literature.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. In the subject of talc. To the best of my recollection, sir, I was not specifically retained in a litigation. I was initially involved in the issue of talc.  Q. Okay. And so but my point is, is that your instruction to your librarian to start this list and pulling this literature did not happen before April of May of 2015 when you were first contacted to work as a consultant in this case.  A. Yes, I think that's correct. Q. All right. A. But the answer to your question was how long it takes to write this. And I was explaining that on a monthly basis, I go through this literature, which is germane to this report. And on a monthly basis, I note
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	accumulated.  Q. Okay.  A. So if you're asking me how long did it take to write this physically, that's in some number of hours. But it was a lot of time spent in determining what I was going to write. And part of it, just so you understand my process, is that I have a librarian who pulls the literature monthly on talc, talc and cancer, ovarian cancer, and I get summaries of the literature from the National Library of Medicine. You've used this also, I'm sure. And I go through them and I determine anything that seems as though it might be relevant to answering the question that I was originally asked.  Q. Now, you said that your librarian pulls the talc-related literature.  A. She does not choose the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. In the subject of talc. To the best of my recollection, sir, I was not specifically retained in a litigation. I was initially involved in the issue of talc.  Q. Okay. And so but my point is, is that your instruction to your librarian to start this list and pulling this literature did not happen before April of May of 2015 when you were first contacted to work as a consultant in this case.  A. Yes, I think that's correct. Q. All right. A. But the answer to your question was how long it takes to write this. And I was explaining that on a monthly basis, I go through this literature, which is germane to this report. And on a monthly basis, I note that which would be added to update the report. And so this has been a living

45 (Pages 174 to 177)

Jonathan Borak, M.D., DABT

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Page 178
                                                                                        Page 180
 1
       22 hours. It was hours, including a lot
                                                     1
                                                                I'm asking him about his CV, to
 2
       of time reading.
                                                     2
                                                                confirm what his position is.
 3
           Q. Let me just ask you a
                                                     3
                                                                   MR. LOCKE: Okay. What is
 4
       question. Going back to your CV, your CV
                                                     4
                                                                the question?
                                                     5
 5
       says, "2007 to 2017, clinical professor
                                                            BY MR. GOLOMB:
                                                     6
7
 6
       of epidemiology and public health,"
                                                                Q. So -- well, the question --
 7
       correct?
                                                            the question now is, for whatever reason,
 8
                                                     8
                                                            this dispute with this chairman, you're
           A. Yes.
 9
           Q. And then it says from 2008
                                                     9
                                                            no longer a clinical professor of
10
       to current, clinical professor of
                                                    10
                                                            epidemiology at Yale?
11
       medicine, Yale University, correct?
                                                    11
                                                                   MR. LOCKE: Objection.
           A. Yes.
12
                                                    12
                                                                   You can answer.
13
           Q. It also says 2003 to
                                                    13
                                                                   THE WITNESS: Yes. I told
14
       current, adjunct associate professor of
                                                    14
                                                                you a moment ago that I was
15
       medicine, correct?
                                                    15
                                                                responsible for the paper, and I
16
           A. At Johns Hopkins.
                                                    16
                                                                was responsible for the mistake.
17
           Q. At Johns Hopkins.
                                                                You didn't follow that.
                                                    17
18
           A. Yes.
                                                    18
                                                                   The mistake was that I
19
           Q. Right. And you told me
                                                    19
                                                                carried over from an earlier
20
       earlier in answer to a question that
                                                    20
                                                                report that I was currently
                                                                clinical professor of epidemiology
21
       you're no longer a clinical professor of
                                                    21
22
       epidemiology at Yale, and you explained
                                                    22
                                                                and public health.
23
       that there was --
                                                    23
                                                            BY MR. GOLOMB:
24
           A. Yes.
                                                    24
                                                                Q. So the mistake was that in
                                    Page 179
                                                                                        Page 181
 1
            Q. -- some conflict with the
                                                            the very first sentence of the report, in
                                                     1
 2
3
4
5
6
7
                                                     2
        chairman or something?
                                                            a consultingship that you have been paid
                                                     3
                                                            almost $600,000 for, you identified
            A. Yes.
                                                     4
               MR. LOCKE: First, let me
                                                            yourself as a clinical professor of
                                                     5
            interpose an objection because you
                                                            epidemiology, when in fact you're not.
            missed a portion, but go ahead.
                                                     6
                                                            That's the mistake?
                                                     7
               MR. GOLOMB: Well, for
                                                                   MR. LOCKE: Objection.
 8
                                                     8
            completeness's sake, what portion
                                                                Objection.
 9
                                                     9
            did I miss.
                                                                   THE WITNESS: I provided my
10
                                                    10
               MR. LOCKE: Faculty member
                                                                CV correctly. I did not even see
11
            of the Yale occupational
                                                    11
                                                                that when I read it 12 times. And
12
            environmental medicine program.
                                                    12
                                                                it is my mistake.
13
               MR. GOLOMB: And you're
                                                    13
                                                            BY MR. GOLOMB:
                                                                Q. But you typed it?A. That was not typed. That
14
                                                    14
            looking where?
15
                                                    15
               MR. LOCKE: In the first
16
            paragraph that you're referring to
                                                    16
                                                            was carried over from an earlier report.
                                                            That was my laziness of mind. And I'm
17
            in his report.
                                                    17
18
                                                    18
                                                            responsible for that.
               MR. GOLOMB: I'm not looking
19
                                                    19
            at his report. I'm looking at his
                                                                Q. So let me understand what
20
                                                    20
                                                            you mean by carried over. Do you mean
21
               MR. LOCKE: Okay. I thought
                                                    21
                                                            cut and paste?
22
            you were comparing his report and
                                                    22
                                                                A. I had written an earlier
                                                            report, you're aware --
23
                                                    23
            his CV.
24
               MR. GOLOMB: No. Right now
                                                    24
                                                                Q. Right.
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46 (Pages 178 to 181)

1		Page 182		Page 184
what is in this structure.  Q. What do you define  "resemble."  A. If you follow through many of of the paragraphs, it is laid out similarly. And the previous report was something that I, on a monthly basis, would update. And so I had monthly, or bimonthly or whatever, revisions of a report that I had once written.  Q. Right.  A. And in the context of doing it it that way, I never looked back at that first paragraph. And it's my mistake.  Q. All right. And by  "R. LOCKE: Objection.  MR. HEGARTY: Objection.  MR. LOCKE: Objection.  Daga 183  Day MR. GOLOMB:  Q. All right. And so I'm still  MR. LOCKE: Objection.  Page 183  Day MR. GOLOMB:  Q. All right. And so I'm still  MR. LOCKE: Objection.  Page 183  Day MR. GOLOMB:  Q. All right. And so I'm still  MR. LOCKE: Objection.  Page 183  Day MR. GOLOMB:  Q. All right. And so I'm still  MR. LOCKE: Objection.  Page 183  Day MR. GOLOMB:  Q. All right. And so I'm still  MR. LOCKE: Objection.  Page 183  Day MR. GOLOMB:  Q. All right. And so I'm still  A. Yes, I think that's correct.  Q. All right. And so I'm still  A. Yes, I think that's correct.  Q. All right. And so I'm still  A. Yes, I think that's correct.  Q. All right. And so I'm still  A. Yes, I think that's correct.  A. I don't doubt it.  Q. Okay. And in the in the  The WITNESS: This comes off	1		1	_
3				-
4 "resemble."  A. If you follow through many of the paragraphs, it is laid out similarly. And the previous report was 8 something that 1, on a monthly basis, would update. And so I had monthly, or bimonthly or whatever, revisions of a 10 proport that I had once written.  12 Q. Right.  13 A. And in the context of doing 11 treport that I had once written.  14 it that way, I never looked back at that first paragraph. And it's my mistake.  15 Q. All right. And by resemble," would you agree that a – two reports that are over 85 percent oreach other?  18 word-for-word verbatim the same, resemble each other?  21 MR. LOCKE: Objection.  22 MR. HEGARTY: Objection.  23 THE WITNESS: Yes, I would say that.  Page 183  1 BY MR. GOLOMB:  2 Q. All right. And so I'm still trying to understand what you mean by — when you say in the very first paragraph, where you identify yourself as a clinical professor of epidemiology, what you are talking about in this transition from the first report to the second report And so let me ask 11 you a very specific question.  14 which has been marked as Exhibit 7, did you type this report dated  15 MR. HEGARTY: Objection.  16 Page 183  1 BY MR. GOLOMB:  2 Q. All right. And so I'm still trying to understand what you mean by — when you say in the very first paragraph, which has been marked as Exhibit 7, did you a very specific question.  15 February 25, 2019, which has been — which has been marked as Exhibit 7, did you type this report dated  17 THE WITNESS: This comes off my computer, yes.  18 BY MR. GOLOMB:  29 Q. Okay, Do you know what 1 mean when I say cut and paste?  20 Q. Okay Do you know what 1 mean when I say cut and paste?  21 MR. LOCKE: Objection.  22 MR. HEGARTY: Objection.  23 THE WITNESS: This comes off my computer, yes.  24 Was and the crecard is clear, when you as sq. This is hat revision of a rearlier report of February 25, 2019, report in the Well with its is -so the report, with is that is -so the report, "tim is thate report of February 25, 2019, report in the MDL.  25 MR. LOCKE:			1	
5 A. If you follow through many 6 of the paragraphs, it is laid out 7 similarly. And the previous report was 8 something that I, on a monthly basis, 9 would update. And so I had monthly, or 10 bimonthly or whatever, revisions of a 11 report that I had once written. 12 Q. Right. 13 A. And in the context of doing 14 it that way, I never looked back at that 15 first paragraph. And it's my mistake. 16 Q. All right. And by 17 "resemble," would you agree that a – two 18 reports that are over 85 percent 19 word-for-word verbatim the same, resemble 20 each other? 21 MR. LOCKE: Objection. 22 MR. HEGARTY: Objection. 23 THE WITNESS: Yes, I would 24 say that.  Page 183  1 BY MR. GOLOMB: 2 Q. All right. And so I'm still 3 trying to understand what you mean by— 4 when you say in the report of 8 epidemiology, what you are talking about 10 in this transition from the first report 10 to the second report. And so let me ask 11 you a very specific question. 12 This report dated 13 February 25, 2019, which has been — 14 which has been marked as Exhibit 7, did 15 you type this report yourself? 16 MR. HEGARTY: Objection. 17 THE WITNESS: This comes off 18 my computer, yes. 19 BY MR. GOLOMB: 20 Q. Okay. Do you know what 1 21 mean when I say cut and paste? 22 MR. LOCKE: Objection? 23 THE WITNESS: This comes off 24 my computer, yes. 25 MR. LOCKE: Objection. 26 my computer, yes. 27 my computer, yes. 28 my my my computer, yes. 29 my my computer, yes. 29 my my computer, yes. 20 my my computer, yes. 20 my my computer, yes. 21 mean when I say cut and paste? 22 my my computer, yes. 23 my my computer, yes. 24 my my computer, yes. 25 my my my computer, yes. 26 my computer, yes. 27 my				
6 of the paragraphs, it is laid out 7 similarly. And the previous report was 8 something that 1, on a monthly basis, 9 would update. And so I had monthly, or 10 bimonthly or whatever, revisions of a 11 report that I had once written. 12 Q. Right. 13 A. And in the context of doing 14 it that way, I never looked back at that 15 first paragraph. And it's my mistake. 16 Q. All right. And by 17 "resemble," would you agree that a – two 18 word-for-word verbatim the same, resemble 19 word-for-word verbatim the same, resemble 20 each other? 21 MR. LOCKE: Objection. 22 MR. HEGARTY: Objection. 23 THE WITNESS: Yes, I would 24 say that.  Page 183  1 BY MR. GOLOMB: 2 Q. All right. And so I'm still 3 trying to understand what you mean by – 4 when you say in the very first paragraph, 5 where you identify yourself as a clinical 6 professor of epidemiology, what you are talking about 17 in this transition from the first report 18 to the second report. And so let me ask 19 you a very specific question. 19 THE WITNESS: This comes off 10 the second report, yes. 19 BY MR. GOLOMB: 20 Q. Okay, Do you know what I 21 mean when I say cut and paste? 21 MR. HCGARTY: Objection. 22 MR. HCGARTY: Objection. 23 THE WITNESS: This comes off 14 man when I say cut and paste? 25 MR. HCGARTY: Objection. 26 MR. HCGARTY: Objection. 27 THE WITNESS: This comes off 18 my computer, yes. 28 WMR. GOLOMB: 19 MR. GOLOMB: 29 A. Correct.  Q. The carlier report is the report in Oules?  MR. LOCKE: Objection.  BY MR. GOLOMB:  Q. Well, that we - that we've generally described as the Oules report that - when you were involved back in beginning in 2015.  MR. LOCKE: Objection. 21 Iting the And so I'm still 22 This report dated 23 This report dated 24 Say that.  Page 183  Page 185  Or I think she pronounced her name Oules, but I'm not sure.  BY MR. GOLOMB: 29 Q. You were - you were deposed in the Oules case, correct? 20 A. Yes, I think that's correct. 20 A. Yes, I think that's correct. 21 A. Yes, I think that's correct. 22 A. Yes, I think that's correct. 23 THE WITN				
similarly. And the previous report was something that I, on a monthly basis, 9 would update. And so I had monthly, or 10 bimonthly or whatever, revisions of a 11 report that I had once written. 12 Q. Right. 13 A. And in the context of doing 14 it that way, I never looked back at that 15 first paragraph. And it's my mistake. 16 Q. All right. And by 17 "resemble," would you agree that a two 18 reports that are over 85 percent 19 word-for-word verbatim the same, resemble 19 each other? 21 MR. LOCKE: Objection. 22 MR. HEGARTY: Objection. 23 THE WITNESS: Yes, I would 24 say that.  Page 183  1 BY MR. GOLOMB: 2 Q. All right. And so I'm still 2 trying to understand what you mean by- when you say in the very first paragraph, 5 where you identify yourself as a clinical professor of epidemiology, what you are talking about in this transition from the first report 10 to the second report. And so let me ask 11 you a very specific question. 12 This report dated 13 February 25, 2019?  MR. LOCKE: Objection. 14 which has been marked as Exhibit 7, did you a very specific question. 15 You type this report yourself? 16 MR. HEGARTY: Objection. 27 You're not a clinical professor of 8 epidemiology, what you are talking about 10 in this transition from the first report 10 to the second report. And so let me ask 11 you a very specific question. 15 February 25, 2019, which has been — 16 Which has been marked as Exhibit 7, did you type this report yourself? 16 MR. HEGARTY: Objection. 27 A Yes, I think that's correct. 28 A. Yes, I think that's correct. 39 A. Yes, I think that's correct. 40 And the Oules report is 41 dated January 17, 2017. Is that 41 consistent with your recollection? 41 A. Correct. 42 And it is word for word what you word in the twey first paragraph, and it is word for word what you word in the twey first paragraph of the Oules report, it may 41 A you word in the term the analyse of part in the Oules case; 42 A. Yes, I think that's correct. 43 A. I don't doubt it. 44 C. O. Okay. And in the in the 45 Girchard And th				
something that I, on a monthly basis, would update. And so I had monthly, or bimorthly or whatever, revisions of a report that I had once written.  Q. Right.  A And in the context of doing it that way, I never looked back at that fifst paragraph. And it's my mistake. Q. All right. And by first paragraph. Where you deposed in this transition from the first report when you say in the very first paragraph, where you identify yourself as a clinical professor of epidemiology, what you are talking about in this transition from the first report to the second report. And so let me ask you a very specific question.  BY MR. GOLOMB:  Well, that we - that we've generally described as the Oules report that - when you were involved back in - beginning in 2015.  MR. LOCKE: Objection.  Page 183  BY MR. GOLOMB:  Page 183  BY MR. GOLOMB:  Page 184  Page 185  Page 185  Page 185  Page 186  Page 187  Page 188  Page 188  Page 188  Page 188  Page 189  Page 185  Page 186  Page 189  Pag				
y would update. And so I had monthly, or bimonthly or whatever, revisions of a 10 pimonthly or whatever, revisions of a 11 report that I had once written.  12 Q. Right. 13 A. And in the context of doing 13 A. And in the context of doing 14 it that way, I never looked back at that 15 first paragraph. And it's my mistake. 15 Q. All right. And by 16 reports that are over 85 percent word-for-word verbatim the same, resemble each other? 21 MR. LOCKE: Objection. 22 MR. HEGARTY: Objection. 22 MR. HEGARTY: Objection. 22 MR. HEGARTY: Objection. 23 THE WITNESS: Yes, I would 23 say that. 24 say that. 24 say that. 25 Page 183  1 BY MR. GOLOMB: 1 Or I think she pronounced her name Oules, but I'm not sure. 25 Page 185		• • • •		
trying to understand what you mean by- when you say in the very first paragraph, when you vary specific question.  BY MR. GOLOMB:  10  Q. The earlier report is the report in Oules?  MR. LOCKE: Objection.  MR. HEGARTY: Objection.  MR. HGOLOMB:  Q. Well, that we that we've generally described as the Oules report that when you were involved back in beginning in 2015.  MR. LOCKE: Objection.  21  MR. LOCKE: Objection. 22  MR. HEGARTY: Objection. 23  THE WITNESS: Yes, I would 23  say that.  Page 183  Page 185  Page 185  Or I think she pronounced her name Oules, but I'm not sure.  BY MR. GOLOMB:  Q. Vou were you were deposed in the Oules case, correct?  A. Yes, I think that's correct. Q. All right. And you authored a report in the Oules case, correct?  A. Yes, I think that's correct. Q. All tright. And you authored a report in the Oules case, correct?  A. Yes, I think that's correct. Q. And the Oules report is the report in Oules?  MR. LOCKE: Objection. 24  BY MR. GOLOMB:  DY I think she pronounced her name Oules, but I'm not sure.  BY MR. GOLOMB:  Or I think she pronounced her name Oules, but I'm not sure.  BY MR. GOLOMB:  Or I think she pronounced her name Oules, but I'm not sure.  BY MR. GOLOMB:  A. Yes, I think that's correct. Q. All right. And you authored a report in the Oules case, correct?  A. Yes, I think that's correct. Q. And the Oules report is dated January 17, 2017. Is that consistent with your recollection?  A. I don't doubt it. Q. Okay. And in the in the first paragraph of the Oules report is dated January 17, 2017. Is that consistent with your recollection?  A. I don't doubt it. A. And it is word for word what you wrote in the February 25, 2019, report in the MDL. A. What I just told you earlier was that I took an earlier report, it may			1	
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Jonathan Borak, M.D., DABT

	Page 186		Page 188
1	updating it as I read over several years.	1	surprised by you.
2	I never went back and redid that first	2	BY MR. GOLOMB:
3	paragraph, because I never even looked at	3	Q. Okay. Take my word for it.
4	it. That's my mistake.	4	A. Thank you.
5	Q. And I'm not I'm I'm	5	MR. HEGARTY: Objection.
6	sorry. I didn't mean to interrupt.	6	MR. LOCKE: Good luck.
7	And I'm trying to figure	7	BY MR. GOLOMB:
8	out, and this this is what, my words,	8	Q. And and you understand
9	you seem to be dancing around.	9	that part of part of the challenge is
10	And that is, how you updated	10	your qualifications, correct?
11	the report. You either typed it or	11	MR. HEGARTY: Objection.
12	you said it's on your computer. But you	12	MR. LOCKE: Objection.
13	either typed it on your computer or you	13	THE WITNESS: I didn't know
14	lifted that paragraph from the earlier	14	that that was part of the Daubert
15	report, Paragraph Number 1, identifying	15	challenge.
16	yourself as a clinical professor of	16	BY MR. GOLOMB:
17	epidemiology, and lifted it and put it in	17	Q. I'm just asking you a simple
18	Paragraph 1 of this report dated	18	yes or no question.
19	February 2019.	19	MR. LOCKE: He didn't know.
20	A. I did neither	20	He answered it.
21	MR. LOCKE: Objection.	21	BY MR. GOLOMB:
22	MR. HEGARTY: Objection.	22	Q. You you understand that
23	THE WITNESS: I did neither.	23	that that's part of the that
24	BY MR. GOLOMB:	24	qualifications is part of the judge's
21	BT MR. GOLOMB.		quantications is part of the judge s
	Page 187		Dogo 100
	1030 107		Page 189
1	Q. So, what did you do?	1	consideration as to whether or not she
2		1 2	consideration as to whether or not she should allow you to testify as an
	Q. So, what did you do?		consideration as to whether or not she
2	<ul><li>Q. So, what did you do?</li><li>A. I I typed this in</li></ul>	2	consideration as to whether or not she should allow you to testify as an
2	Q. So, what did you do? A. I I typed this in whenever it was, you are giving me a date	2 3	consideration as to whether or not she should allow you to testify as an epidemiologist in front of a jury?
2 3 4	Q. So, what did you do? A. I I typed this in whenever it was, you are giving me a date from 2015. And that is the paragraph	2 3 4 5 6	consideration as to whether or not she should allow you to testify as an epidemiologist in front of a jury?  MR. HEGARTY: Objection.
2 3 4 5	Q. So, what did you do? A. I I typed this in whenever it was, you are giving me a date from 2015. And that is the paragraph from 2015.	2 3 4 5	consideration as to whether or not she should allow you to testify as an epidemiologist in front of a jury?  MR. HEGARTY: Objection.  MR. LOCKE: Objection.
2 3 4 5 6	Q. So, what did you do? A. I I typed this in whenever it was, you are giving me a date from 2015. And that is the paragraph from 2015. And I have just continued	2 3 4 5 6	consideration as to whether or not she should allow you to testify as an epidemiologist in front of a jury?  MR. HEGARTY: Objection.  MR. LOCKE: Objection.  THE WITNESS: I I don't
2 3 4 5 6 7	Q. So, what did you do? A. I I typed this in whenever it was, you are giving me a date from 2015. And that is the paragraph from 2015.  And I have just continued revising that report in a Word file. And	2 3 4 5 6 7	consideration as to whether or not she should allow you to testify as an epidemiologist in front of a jury?  MR. HEGARTY: Objection.  MR. LOCKE: Objection.  THE WITNESS: I I don't know that's part of the four legs
2 3 4 5 6 7 8	Q. So, what did you do? A. I I typed this in whenever it was, you are giving me a date from 2015. And that is the paragraph from 2015.  And I have just continued revising that report in a Word file. And what I'm telling you is mistakenly, I	2 3 4 5 6 7 8	consideration as to whether or not she should allow you to testify as an epidemiologist in front of a jury?  MR. HEGARTY: Objection.  MR. LOCKE: Objection.  THE WITNESS: I I don't know that's part of the four legs of the Daubert decision. But
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	Page 100		Dago 102
	Page 190		Page 192
1	of a Daubert decision.	1	relevant to the MDL?
2	BY MR. GOLOMB:	2	Q. So well, I'm I'm using
3	Q. And I just want to know what	3	it as a well well, okay. That's a
4	your understanding is of the four legs of	4	fair question. And we'll what we'll
5	a Daubert decision.	5	do is we're going to we'll try to get
6	A. I I have read that there	6	a date. Okay?
7	are criteria that are used in determining	7	A. Try to get a what?
8	whether an expert's testimony will be	8	Q. We'll try to fix a date.
9	permitted.	9	A. A date?
10	Q. Okay.	10	Q. Yeah.
11	A. And that is based upon the	11	A. Okay.
12	methodology.	12	Q. All right. So you authored
13	Q. And is that your only	13	your report in the Oules case on
14	methodology?	14	January 17, 2017?
15	A. I'm sorry?	15	A. I accept that as your
16	Q. Is it only methodology?	16	statement.
17	MR. LOCKE: Objection.	17	Q. You were deposed in the
18	MR. HEGARTY: Objection.	18	Oules case on June 8, 2017?
19	THE WITNESS: That is my	19	A. Again, I accept that as
20	understanding, but I'm just a	20	correct. I don't know.
21	country doctor.	21	Q. You authored your report.
22	BY MR. GOLOMB:	22	February 25, 2019?
23	Q. Okay. So let let's talk	23	A. Okay.
24	about your methodology in this case.	24	Q. When did you first learn
	Page 191		Page 193
1	Page 191 So and for ease of reference, so we	1	Page 193 that you were going to be serving as an
2		2	that you were going to be serving as an expert in the MDL?
	So and for ease of reference, so we don't have to have this back and forth. Well, when when I talk about the	2 3	that you were going to be serving as an expert in the MDL?  A. I don't remember.
2 3 4	So and for ease of reference, so we don't have to have this back and forth. Well, when when I talk about the the earlier report and your work before	2 3 4	that you were going to be serving as an expert in the MDL?  A. I don't remember. Q. Was it before or after you
2 3 4 5	So and for ease of reference, so we don't have to have this back and forth. Well, when when I talk about the the earlier report and your work before the MDL, I'll refer to it as Oules, okay?	2 3	that you were going to be serving as an expert in the MDL?  A. I don't remember.  Q. Was it before or after you testified in June of 2017 in the Oules
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	So and for ease of reference, so we don't have to have this back and forth.  Well, when when I talk about the the earlier report and your work before the MDL, I'll refer to it as Oules, okay?  Can we agree on that?  A. So Oules represents anything that I did on talc prior to the MDL.  Q. Correct.  A. I'll accept that as a nickname.  MR. LOCKE: Well, I'm I'm going to object, but  BY MR. GOLOMB:  Q. And that's a good way to put it. We'll call it we'll use it as a nickname. And anything post anything that you've done for the MDL, we'll call the MDL.  You with me?  A. I am.  Let me ask you a question for clarity. What if I did something	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	that you were going to be serving as an expert in the MDL?  A. I don't remember. Q. Was it before or after you testified in June of 2017 in the Oules case?  A. I imagine it was after, but I don't I don't remember specifically. Q. Okay. So we'll go back to your your I want to talk about your methodology. All right?  And so your the first thing that you did when you first got involved in the talc litigation was to to pull to pull the literature?  A. Was that your question?  MR. HEGARTY: Objection. BY MR. GOLOMB: Q. Yeah. A. Yes. The first thing I did after my conversations was to read about talc, about talc and ovarian cancer. Q. And as a as a as an
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	So and for ease of reference, so we don't have to have this back and forth.  Well, when when I talk about the the earlier report and your work before the MDL, I'll refer to it as Oules, okay?  Can we agree on that?  A. So Oules represents anything that I did on talc prior to the MDL.  Q. Correct.  A. I'll accept that as a nickname.  MR. LOCKE: Well, I'm I'm going to object, but  BY MR. GOLOMB:  Q. And that's a good way to put it. We'll call it we'll use it as a nickname. And anything post anything that you've done for the MDL, we'll call the MDL.  You with me?  A. I am.  Let me ask you a question	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	that you were going to be serving as an expert in the MDL?  A. I don't remember. Q. Was it before or after you testified in June of 2017 in the Oules case?  A. I imagine it was after, but I don't I don't remember specifically. Q. Okay. So we'll go back to your your I want to talk about your methodology. All right?  And so your the first thing that you did when you first got involved in the talc litigation was to to pull to pull the literature?  A. Was that your question?  MR. HEGARTY: Objection. BY MR. GOLOMB: Q. Yeah. A. Yes. The first thing I did after my conversations was to read about talc, about talc and ovarian cancer.

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	Page 194		Page 196
1	know before you review that literature,	1	correct?
2	you want to know what your role is going	2	MR. LOCKE: Objection.
3	to be, correct?	3	THE WITNESS: I said that I
4	MR. LOCKE: Objection.	4	was asked to review the published
5	THE WITNESS: I don't	5	and peer-reviewed scientific
6	understand your question.	6	literature.
7	BY MR. GOLOMB:	7	BY MR. GOLOMB:
8	Q. You wanted to know why you	8	Q. Right. And so and I just
9	were serving as an expert?	9	want to be clear, and I think you've
10	MR. LOCKE: Objection.	10	answered this question at least once
11	MR. HEGARTY: Objection.	11	already.
12	THE WITNESS: I think it was	12	To be clear, you were asked
13	clear to me that there was a	13	to not to determine whether or not
14	factual question regarding whether	14	talc causes ovarian cancer or whether it
15	or not talc caused ovarian cancer.	15	may cause ovarian cancer. You were asked
16	BY MR. GOLOMB:	16	simply to comment on what the state of
17	Q. But that's not the question	17	the literature was as of the date that
18	that you ultimately answered.	18	you wrote the report?
19	A. That I understood, however,	19	MR. HEGARTY: Objection.
20	from the very beginning that there was	20	MR. LOCKE: Objection.
21	that question. And then as I explained	21	BY MR. GOLOMB:
22	in my report and I just to make it	22	Q. Is that correct?
23	as clear as possible, I was asked	23	A. I was asked to evaluate,
24	Q. Tell me what page you are	24	whether, when, and by whom it had been
			<u> </u>
	Page 195		Page 197
1	referring to.	1	determined.
2	A. I'm on looking on Page 2.	2	Q. Okay. Which is just another
3	I was asked by Mr. Locke, this	3	way of saying what I just said, correct?
4	good-looking guy next to me, to review	4	MR. LOCKE: Objection.
5	the published and peer-reviewed	5	THE WITNESS: I think it's a
6	scientific literature	6	little different.
7	Q. What paragraph are you	7	BY MR. GOLOMB:
8	reading?	8	Q. Okay. And that's why you
9	A. Eight. I'll do it again.	9	didn't do your own meta-analysis, and
10	"I was asked by Tom Locke to	10	that's why you didn't do a Bradford Hill
11	review published and peer-reviewed	11	analysis, because that wasn't relevant to
11 12	scientific literature relative to the	12	analysis, because that wasn't relevant to the question that was being asked of you?
11 12 13	scientific literature relative to the alleged association between perineal use	12 13	analysis, because that wasn't relevant to the question that was being asked of you?  MR. LOCKE: Objection.
11 12 13 14	scientific literature relative to the alleged association between perineal use of talc-containing powders and ovarian	12 13 14	analysis, because that wasn't relevant to the question that was being asked of you?  MR. LOCKE: Objection.  MR. HEGARTY: Objection.
11 12 13 14 15	scientific literature relative to the alleged association between perineal use of talc-containing powders and ovarian cancer. I was specifically asked to	12 13 14 15	analysis, because that wasn't relevant to the question that was being asked of you?  MR. LOCKE: Objection.  MR. HEGARTY: Objection.  THE WITNESS: It was not
11 12 13 14 15 16	scientific literature relative to the alleged association between perineal use of talc-containing powders and ovarian cancer. I was specifically asked to analyze the above materials from a	12 13 14 15 16	analysis, because that wasn't relevant to the question that was being asked of you?  MR. LOCKE: Objection.  MR. HEGARTY: Objection.  THE WITNESS: It was not necessary.
11 12 13 14 15 16 17	scientific literature relative to the alleged association between perineal use of talc-containing powders and ovarian cancer. I was specifically asked to analyze the above materials from a chronological perspective in order to	12 13 14 15 16 17	analysis, because that wasn't relevant to the question that was being asked of you? MR. LOCKE: Objection. MR. HEGARTY: Objection. THE WITNESS: It was not necessary. BY MR. GOLOMB:
11 12 13 14 15 16 17 18	scientific literature relative to the alleged association between perineal use of talc-containing powders and ovarian cancer. I was specifically asked to analyze the above materials from a chronological perspective in order to evaluate whether, when, and by whom it	12 13 14 15 16 17 18	analysis, because that wasn't relevant to the question that was being asked of you? MR. LOCKE: Objection. MR. HEGARTY: Objection. THE WITNESS: It was not necessary. BY MR. GOLOMB: Q. Right, because that's not
11 12 13 14 15 16 17 18 19	scientific literature relative to the alleged association between perineal use of talc-containing powders and ovarian cancer. I was specifically asked to analyze the above materials from a chronological perspective in order to evaluate whether, when, and by whom it had been determined that perineal use of	12 13 14 15 16 17 18 19	analysis, because that wasn't relevant to the question that was being asked of you? MR. LOCKE: Objection. MR. HEGARTY: Objection. THE WITNESS: It was not necessary. BY MR. GOLOMB: Q. Right, because that's not what was being asked of you?
11 12 13 14 15 16 17 18 19 20	scientific literature relative to the alleged association between perineal use of talc-containing powders and ovarian cancer. I was specifically asked to analyze the above materials from a chronological perspective in order to evaluate whether, when, and by whom it had been determined that perineal use of talc-containing powder causes ovarian	12 13 14 15 16 17 18 19 20	analysis, because that wasn't relevant to the question that was being asked of you? MR. LOCKE: Objection. MR. HEGARTY: Objection. THE WITNESS: It was not necessary. BY MR. GOLOMB: Q. Right, because that's not what was being asked of you? A. I was asked to do something
11 12 13 14 15 16 17 18 19 20 21	scientific literature relative to the alleged association between perineal use of talc-containing powders and ovarian cancer. I was specifically asked to analyze the above materials from a chronological perspective in order to evaluate whether, when, and by whom it had been determined that perineal use of talc-containing powder causes ovarian cancer."	12 13 14 15 16 17 18 19 20 21	analysis, because that wasn't relevant to the question that was being asked of you?  MR. LOCKE: Objection.  MR. HEGARTY: Objection.  THE WITNESS: It was not necessary.  BY MR. GOLOMB:  Q. Right, because that's not what was being asked of you?  A. I was asked to do something different, yes.
11 12 13 14 15 16 17 18 19 20 21 22	scientific literature relative to the alleged association between perineal use of talc-containing powders and ovarian cancer. I was specifically asked to analyze the above materials from a chronological perspective in order to evaluate whether, when, and by whom it had been determined that perineal use of talc-containing powder causes ovarian cancer."  Q. Okay. And when you say by	12 13 14 15 16 17 18 19 20 21 22	analysis, because that wasn't relevant to the question that was being asked of you? MR. LOCKE: Objection. MR. HEGARTY: Objection. THE WITNESS: It was not necessary. BY MR. GOLOMB: Q. Right, because that's not what was being asked of you? A. I was asked to do something different, yes. Q. Right. So going back to the
11 12 13 14 15 16 17 18 19 20 21	scientific literature relative to the alleged association between perineal use of talc-containing powders and ovarian cancer. I was specifically asked to analyze the above materials from a chronological perspective in order to evaluate whether, when, and by whom it had been determined that perineal use of talc-containing powder causes ovarian cancer."	12 13 14 15 16 17 18 19 20 21	analysis, because that wasn't relevant to the question that was being asked of you?  MR. LOCKE: Objection.  MR. HEGARTY: Objection.  THE WITNESS: It was not necessary.  BY MR. GOLOMB:  Q. Right, because that's not what was being asked of you?  A. I was asked to do something different, yes.

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	Page 198		Page 200
1	A. The earlier report?	1	Council. Thank you.
2	Q. Yeah, the January 2017	2	BY MR. GOLOMB:
3	report.	3	Q. You didn't you never
4	A. Okay.	4	reviewed any of those internal documents,
5	Q. You now the first thing	5	correct?
6	you do is to review the literature?	6	MR. LOCKE: Objection.
7	MR. LOCKE: Objection.	7	MR. HEGARTY: Objection.
8	THE WITNESS: I'm sorry.	8	THE WITNESS: I think that's
9	When is that?	9	correct.
10	BY MR. GOLOMB:	10	BY MR. GOLOMB:
11	Q. Before you wrote your report	11	Q. All right. So when you talk
12	in January of 2017.	12	about pre-1972 literature, you're not
13	A. I read literature at the	13	talking about internal documents that
14	very beginning of this project.	14	maybe in 1965 identified a potential
15	Q. Right. And you the	15	problem for them?
16	literature as it relates to this issue of	16	MR. LOCKE: Objection.
17	the causal link or the association	17	MR. HEGARTY: Objection.
18	between talc and ovarian cancer goes back	18	THE WITNESS: I was not
19	to 1972, correct?	19	doing that.
20	MR. HEGARTY: Objection.	20	BY MR. GOLOMB:
21	MR. LOCKE: Objection.	21	Q. Okay. And so when you said
22	THE WITNESS: It may have	22	there was conversation, there may have
23	even gotten back in conversation	23	been conversation before 1972 about it,
24	before that, but somewhere like	24	what are you referring to?
	before that, but somewhere like		what are you referring to:
	Page 199		Page 201
1	that.	1	A. I'm just speculating, and I
1 2	that. BY MR. GOLOMB:	1 2	A. I'm just speculating, and I shouldn't speculate.
2 3 4	BY MR. GOLOMB:	2	shouldn't speculate. Q. Okay. So take me through what it is that you do before you're
2	BY MR. GOLOMB: Q. And when you say in	2 3 4 5	shouldn't speculate.  Q. Okay. So take me through what it is that you do before you're ready to ready to write your report.
2 3 4	BY MR. GOLOMB:  Q. And when you say in conversation, what conversation are you referring to?  A. I don't know. But I'm just	2 3 4	shouldn't speculate.  Q. Okay. So take me through what it is that you do before you're ready to ready to write your report.  A. Could you be more specific?
2 3 4 5 6 7	BY MR. GOLOMB:  Q. And when you say in conversation, what conversation are you referring to?  A. I don't know. But I'm just saying that I don't think it was born	2 3 4 5 6 7	shouldn't speculate.  Q. Okay. So take me through what it is that you do before you're ready to ready to write your report.  A. Could you be more specific?  Do what I do? What do you mean?
2 3 4 5 6	BY MR. GOLOMB:  Q. And when you say in conversation, what conversation are you referring to?  A. I don't know. But I'm just	2 3 4 5 6 7 8	shouldn't speculate.  Q. Okay. So take me through what it is that you do before you're ready to ready to write your report.  A. Could you be more specific?
2 3 4 5 6 7 8	BY MR. GOLOMB:  Q. And when you say in conversation, what conversation are you referring to?  A. I don't know. But I'm just saying that I don't think it was born anew in 1972.  Q. Okay. Now, you raised the	2 3 4 5 6 7 8	shouldn't speculate.  Q. Okay. So take me through what it is that you do before you're ready to ready to write your report.  A. Could you be more specific?  Do what I do? What do you mean?  Q. You get an assignment.  You've had whatever introductory
2 3 4 5 6 7 8	BY MR. GOLOMB:  Q. And when you say in conversation, what conversation are you referring to?  A. I don't know. But I'm just saying that I don't think it was born anew in 1972.  Q. Okay. Now, you raised the issue. Let me ask you a question about	2 3 4 5 6 7 8 9	shouldn't speculate.  Q. Okay. So take me through what it is that you do before you're ready to ready to write your report.  A. Could you be more specific?  Do what I do? What do you mean?  Q. You get an assignment.  You've had whatever introductory conversations you've had with Mr. Locke.
2 3 4 5 6 7 8 9 10	BY MR. GOLOMB:  Q. And when you say in conversation, what conversation are you referring to?  A. I don't know. But I'm just saying that I don't think it was born anew in 1972.  Q. Okay. Now, you raised the issue. Let me ask you a question about pre-1972.	2 3 4 5 6 7 8 9 10	shouldn't speculate.  Q. Okay. So take me through what it is that you do before you're ready to ready to write your report.  A. Could you be more specific? Do what I do? What do you mean?  Q. You get an assignment. You've had whatever introductory conversations you've had with Mr. Locke. You know what your job is. You've got a
2 3 4 5 6 7 8 9 10 11 12	BY MR. GOLOMB:  Q. And when you say in conversation, what conversation are you referring to?  A. I don't know. But I'm just saying that I don't think it was born anew in 1972.  Q. Okay. Now, you raised the issue. Let me ask you a question about pre-1972.  If I understand correctly	2 3 4 5 6 7 8 9 10 11 12	shouldn't speculate.  Q. Okay. So take me through what it is that you do before you're ready to ready to write your report.  A. Could you be more specific?  Do what I do? What do you mean?  Q. You get an assignment.  You've had whatever introductory conversations you've had with Mr. Locke. You know what your job is. You've got a fee agreement with TASA. And that is
2 3 4 5 6 7 8 9 10 11 12 13	BY MR. GOLOMB:  Q. And when you say in conversation, what conversation are you referring to?  A. I don't know. But I'm just saying that I don't think it was born anew in 1972.  Q. Okay. Now, you raised the issue. Let me ask you a question about pre-1972.  If I understand correctly from the various attachments to your	2 3 4 5 6 7 8 9 10 11 12 13	shouldn't speculate.  Q. Okay. So take me through what it is that you do before you're ready to ready to write your report.  A. Could you be more specific?  Do what I do? What do you mean?  Q. You get an assignment.  You've had whatever introductory conversations you've had with Mr. Locke. You know what your job is. You've got a fee agreement with TASA. And that is somewhere in mid-2015, correct?
2 3 4 5 6 7 8 9 10 11 12 13 14	BY MR. GOLOMB:  Q. And when you say in conversation, what conversation are you referring to?  A. I don't know. But I'm just saying that I don't think it was born anew in 1972.  Q. Okay. Now, you raised the issue. Let me ask you a question about pre-1972.  If I understand correctly from the various attachments to your report, you have never looked at any	2 3 4 5 6 7 8 9 10 11 12 13	shouldn't speculate.  Q. Okay. So take me through what it is that you do before you're ready to ready to write your report.  A. Could you be more specific?  Do what I do? What do you mean?  Q. You get an assignment.  You've had whatever introductory conversations you've had with Mr. Locke. You know what your job is. You've got a fee agreement with TASA. And that is somewhere in mid-2015, correct?  MR. HEGARTY: Objection.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	BY MR. GOLOMB:  Q. And when you say in conversation, what conversation are you referring to?  A. I don't know. But I'm just saying that I don't think it was born anew in 1972.  Q. Okay. Now, you raised the issue. Let me ask you a question about pre-1972.  If I understand correctly from the various attachments to your report, you have never looked at any company documents. By company documents,	2 3 4 5 6 7 8 9 10 11 12 13 14 15	shouldn't speculate.  Q. Okay. So take me through what it is that you do before you're ready to ready to write your report.  A. Could you be more specific? Do what I do? What do you mean?  Q. You get an assignment. You've had whatever introductory conversations you've had with Mr. Locke. You know what your job is. You've got a fee agreement with TASA. And that is somewhere in mid-2015, correct?  MR. HEGARTY: Objection.  MR. LOCKE: Objection.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	BY MR. GOLOMB:  Q. And when you say in conversation, what conversation are you referring to?  A. I don't know. But I'm just saying that I don't think it was born anew in 1972.  Q. Okay. Now, you raised the issue. Let me ask you a question about pre-1972.  If I understand correctly from the various attachments to your report, you have never looked at any company documents. By company documents, I mean company documents from Johnson &	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	shouldn't speculate.  Q. Okay. So take me through what it is that you do before you're ready to ready to write your report.  A. Could you be more specific?  Do what I do? What do you mean?  Q. You get an assignment.  You've had whatever introductory conversations you've had with Mr. Locke. You know what your job is. You've got a fee agreement with TASA. And that is somewhere in mid-2015, correct?  MR. HEGARTY: Objection.  MR. LOCKE: Objection.  THE WITNESS: Maybe.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	BY MR. GOLOMB:  Q. And when you say in conversation, what conversation are you referring to?  A. I don't know. But I'm just saying that I don't think it was born anew in 1972.  Q. Okay. Now, you raised the issue. Let me ask you a question about pre-1972.  If I understand correctly from the various attachments to your report, you have never looked at any company documents. By company documents, I mean company documents from Johnson & Johnson, company documents from Imerys or	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	shouldn't speculate.  Q. Okay. So take me through what it is that you do before you're ready to ready to write your report.  A. Could you be more specific? Do what I do? What do you mean? Q. You get an assignment. You've had whatever introductory conversations you've had with Mr. Locke. You know what your job is. You've got a fee agreement with TASA. And that is somewhere in mid-2015, correct?  MR. HEGARTY: Objection.  MR. LOCKE: Objection.  THE WITNESS: Maybe. BY MR. GOLOMB:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MR. GOLOMB:  Q. And when you say in conversation, what conversation are you referring to?  A. I don't know. But I'm just saying that I don't think it was born anew in 1972.  Q. Okay. Now, you raised the issue. Let me ask you a question about pre-1972.  If I understand correctly from the various attachments to your report, you have never looked at any company documents. By company documents, I mean company documents from Johnson & Johnson, company documents from Imerys or any of their predecessors, company	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	shouldn't speculate.  Q. Okay. So take me through what it is that you do before you're ready to ready to write your report.  A. Could you be more specific?  Do what I do? What do you mean?  Q. You get an assignment.  You've had whatever introductory conversations you've had with Mr. Locke. You know what your job is. You've got a fee agreement with TASA. And that is somewhere in mid-2015, correct?  MR. HEGARTY: Objection.  MR. LOCKE: Objection.  THE WITNESS: Maybe.  BY MR. GOLOMB:  Q. And then in January of 2017
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MR. GOLOMB:  Q. And when you say in conversation, what conversation are you referring to?  A. I don't know. But I'm just saying that I don't think it was born anew in 1972.  Q. Okay. Now, you raised the issue. Let me ask you a question about pre-1972.  If I understand correctly from the various attachments to your report, you have never looked at any company documents. By company documents, I mean company documents from Johnson & Johnson, company documents from Imerys or any of their predecessors, company documents from the Personal Care PCPC.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	shouldn't speculate.  Q. Okay. So take me through what it is that you do before you're ready to ready to write your report.  A. Could you be more specific? Do what I do? What do you mean?  Q. You get an assignment. You've had whatever introductory conversations you've had with Mr. Locke. You know what your job is. You've got a fee agreement with TASA. And that is somewhere in mid-2015, correct?  MR. HEGARTY: Objection.  MR. LOCKE: Objection.  THE WITNESS: Maybe.  BY MR. GOLOMB:  Q. And then in January of 2017 you write you sign off on a report?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	BY MR. GOLOMB:  Q. And when you say in conversation, what conversation are you referring to?  A. I don't know. But I'm just saying that I don't think it was born anew in 1972.  Q. Okay. Now, you raised the issue. Let me ask you a question about pre-1972.  If I understand correctly from the various attachments to your report, you have never looked at any company documents. By company documents, I mean company documents from Johnson & Johnson, company documents from Imerys or any of their predecessors, company	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	shouldn't speculate.  Q. Okay. So take me through what it is that you do before you're ready to ready to write your report.  A. Could you be more specific? Do what I do? What do you mean?  Q. You get an assignment. You've had whatever introductory conversations you've had with Mr. Locke. You know what your job is. You've got a fee agreement with TASA. And that is somewhere in mid-2015, correct?  MR. HEGARTY: Objection.  MR. LOCKE: Objection.  THE WITNESS: Maybe. BY MR. GOLOMB: Q. And then in January of 2017 you write you sign off on a report? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MR. GOLOMB:  Q. And when you say in conversation, what conversation are you referring to?  A. I don't know. But I'm just saying that I don't think it was born anew in 1972.  Q. Okay. Now, you raised the issue. Let me ask you a question about pre-1972.  If I understand correctly from the various attachments to your report, you have never looked at any company documents. By company documents, I mean company documents from Johnson & Johnson, company documents from Imerys or any of their predecessors, company documents from the Personal Care PCPC. I don't remember what it stands for anymore.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	shouldn't speculate.  Q. Okay. So take me through what it is that you do before you're ready to ready to write your report.  A. Could you be more specific?  Do what I do? What do you mean?  Q. You get an assignment.  You've had whatever introductory conversations you've had with Mr. Locke. You know what your job is. You've got a fee agreement with TASA. And that is somewhere in mid-2015, correct?  MR. HEGARTY: Objection.  MR. LOCKE: Objection.  THE WITNESS: Maybe.  BY MR. GOLOMB:  Q. And then in January of 2017 you write you sign off on a report?  A. Yes.  MR. LOCKE: Objection.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	BY MR. GOLOMB:  Q. And when you say in conversation, what conversation are you referring to?  A. I don't know. But I'm just saying that I don't think it was born anew in 1972.  Q. Okay. Now, you raised the issue. Let me ask you a question about pre-1972.  If I understand correctly from the various attachments to your report, you have never looked at any company documents. By company documents, I mean company documents from Johnson & Johnson, company documents from Imerys or any of their predecessors, company documents from the Personal Care PCPC. I don't remember what it stands for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	shouldn't speculate.  Q. Okay. So take me through what it is that you do before you're ready to ready to write your report.  A. Could you be more specific?  Do what I do? What do you mean?  Q. You get an assignment.  You've had whatever introductory conversations you've had with Mr. Locke. You know what your job is. You've got a fee agreement with TASA. And that is somewhere in mid-2015, correct?  MR. HEGARTY: Objection.  MR. LOCKE: Objection.  THE WITNESS: Maybe.  BY MR. GOLOMB:  Q. And then in January of 2017 you write you sign off on a report?  A. Yes.  MR. LOCKE: Objection.  BY MR. GOLOMB:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	BY MR. GOLOMB:  Q. And when you say in conversation, what conversation are you referring to?  A. I don't know. But I'm just saying that I don't think it was born anew in 1972.  Q. Okay. Now, you raised the issue. Let me ask you a question about pre-1972.  If I understand correctly from the various attachments to your report, you have never looked at any company documents. By company documents, I mean company documents from Johnson & Johnson, company documents from Imerys or any of their predecessors, company documents from the Personal Care PCPC. I don't remember what it stands for anymore.  MR. HEGARTY: Products Council.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	shouldn't speculate.  Q. Okay. So take me through what it is that you do before you're ready to ready to write your report.  A. Could you be more specific?  Do what I do? What do you mean?  Q. You get an assignment.  You've had whatever introductory conversations you've had with Mr. Locke. You know what your job is. You've got a fee agreement with TASA. And that is somewhere in mid-2015, correct?  MR. HEGARTY: Objection.  MR. LOCKE: Objection.  THE WITNESS: Maybe.  BY MR. GOLOMB:  Q. And then in January of 2017 you write you sign off on a report?  A. Yes.  MR. LOCKE: Objection.  BY MR. GOLOMB:  Q. And my question is, what do
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MR. GOLOMB:  Q. And when you say in conversation, what conversation are you referring to?  A. I don't know. But I'm just saying that I don't think it was born anew in 1972.  Q. Okay. Now, you raised the issue. Let me ask you a question about pre-1972.  If I understand correctly from the various attachments to your report, you have never looked at any company documents. By company documents, I mean company documents from Johnson & Johnson, company documents from Imerys or any of their predecessors, company documents from the Personal Care PCPC. I don't remember what it stands for anymore.  MR. HEGARTY: Products	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	shouldn't speculate.  Q. Okay. So take me through what it is that you do before you're ready to ready to write your report.  A. Could you be more specific?  Do what I do? What do you mean?  Q. You get an assignment.  You've had whatever introductory conversations you've had with Mr. Locke. You know what your job is. You've got a fee agreement with TASA. And that is somewhere in mid-2015, correct?  MR. HEGARTY: Objection.  MR. LOCKE: Objection.  THE WITNESS: Maybe.  BY MR. GOLOMB:  Q. And then in January of 2017 you write you sign off on a report?  A. Yes.  MR. LOCKE: Objection.  BY MR. GOLOMB:

51 (Pages 198 to 201)

	Page 202		Page 204
1	A. Read a lot.	1	your report of in your ten-page report
2	Q. So what do you read?	2	of January 17, 2017, you concluded,
3	A. What did I do?	3	"Accordingly, it is my opinion to a
4	I probably began with the	4	reasonable degree of scientific certainty
5	2010 IARC report and the land I'm long	5	that whether genital talc causes ovarian
6	enough this morning that my memory is	6	cancer remains uncertain and unproven,"
7	starting to become a little bit	7	correct?
8	Langseth, which was a meta-analysis by	8	MR. LOCKE: Objection. Go
9	members of that IARC committee. And I	9	ahead.
10	would have pulled most of the literature	10	THE WITNESS: I I may
11	that seemed specific to ovarian cancer,	11	have written that. I
12	and I would have read them.	12	BY MR. GOLOMB:
13	Then what I discovered was I	13	Q. Okay. Well
14	was looking at a large number of	14	A. You can show it to me if
15	case-control studies. By then there were	15	you'd like.
16	more than 20, maybe 25. And so I	16	Q. Yeah, why don't we take a
17	actually engaged somebody working for me	17	look at Exhibit 19.
18	to build a table of them so that I could	18	MR. GOLOMB: We've been
19	keep them straight because otherwise it	19	going about an hour and a half
20	became a memory game.	20	now.
21	And the issue of concern to	21	MR. LOCKE: Well, we're
22	me was which of the variety of	22	going to have lunch out there in
23	confounders and other factors were	23	20 minutes or less. So do you
24	considered and how had they been	24	want to continue till then and
	Page 203		Page 205
1	considered and how did those various	1	then we'll take a lunch break?
2	20-plus studies, how were they similar or	2	MR. GOLOMB: Yeah, that's
3	different. I needed to know that before	3	fine.
4	I could probably read the determinations	4	THE WITNESS: Thank you.
5	made by IARC and Langseth and others.	5	(Document marked for
6	And then I did the same	6	identification as Exhibit
7	thing with literature that was on the	7	Borak-19.)
8	cohort studies, which of course was	8	BY MR. GOLOMB:
9	easier because initially there were only	9	Q. Do you recognize this
10	one or maybe two.	10	report?
11	And then along the way, I	11	A. Yes.
12	became intrigued to understand more about	12	MR. LOCKE: I just want to
13	the chemistry of talc and its biological	13	be clear. Unlike Exhibit 7, this
14	activities, and I read about that.	14	report includes a number of
15	And as I did those various	15	attachments that Dr. Borak also
16	things, I looked for statements which	16	had with and when I say this
17	said whether tale caused ovarian cancer	17	report, this Exhibit 19 includes a
18	and when and by whom it was said, if it	18	number of attachments that
19	had been said.	19 20	Dr. Borak also prepared for his
20	And that was the large piece	20	report, which is Exhibit 7 but are not included with Exhibit 7.
21 22	of what I was doing, but some of it	22	
23	required some understanding of what these various people were writing about.	23	MR. GOLOMB: Right. And as the attachments to
24	Q. And then in and then in	24	Exhibit 7, which is the MDL
27	Z. This then in and then in		Exhibit 1, which is the MDE

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	Page 206		Page 208
1		1	A. I think that there either
1 2	report, I have separated, so that	2	
3	there are a number of follow-up	3	was an additional paper that came out or I was I I don't remember.
3 4	exhibits we just haven't gotten	4	
	to.		Q. Okay. Well
5	MR. LOCKE: Okay.	5	A. You are correct about the
6	BY MR. GOLOMB:	6	date.
7	Q. So the January 17th report	7	Q. Let me ask you this. Let
8	on Page 10. That's your signature?	8	me let me throw out another option for
9	A. It's marked 17. You said	9	you. And that is that your report was
10	January just now.	10	really January 17, 2017. You sent it to
11	Q. Well, let's go to Page 10.	11	somebody for review. That other person
12	I have a question about that.	12	edited it, got it back to you, you
13	A. Oh, interesting.	13	accepted the edits. You dated the report
14	Q. Right.	14	March 10, 2017, and forgot to change
15	A. Same sloppiness. Okay.	15	Page 1.
16	MR. LOCKE: It's actually a	16	MR. HEGARTY: Objection.
17	supplemental report, but	17	MR. LOCKE: Objection.
18	BY MR. GOLOMB:	18	BY MR. GOLOMB:
19	Q. Well, let let's take one	19	Q. Did that happen?
20	thing at a time. Page 10, that's your	20	MR. LOCKE: No.
21	signature?	21	THE WITNESS: Almost
22	A. Yes, sir.	22	certainly not.
23	Q. All right. And on Page 1 at	23	BY MR. GOLOMB:
24	the top of the page it says, "Report of	24	Q. Well, is there anything in
21	the top of the page it says, Report of	24	Q. Wen, is there anything in
	Page 207		Page 209
1	Jonathan Borak, M.D., D.A.B.T.,	1	this report that indicates that there was
2	January 17, 2017," correct?	2	a supplement?
3	A. Yes. And it was clearly	3	A. I would have to look at it
4	revised 3/10/17.	4	again I don't Irnavy
5	Q. And		again. I don't know.
_	Q. 1 ma	5	MR. LOCKE: Or the cover
6	A. And that is noted at the	5 6	
6 7	A. And that is noted at the		MR. LOCKE: Or the cover
	A. And that is noted at the at the bottom, as well as on the	6 7	MR. LOCKE: Or the cover that might have been sent with it. THE WITNESS: I don't know.
7 8	A. And that is noted at the at the bottom, as well as on the signature. At the footer of the first	6	MR. LOCKE: Or the cover that might have been sent with it. THE WITNESS: I don't know. BY MR. GOLOMB:
7 8 9	A. And that is noted at the at the bottom, as well as on the signature. At the footer of the first page it has the corrected date.	6 7 8 9	MR. LOCKE: Or the cover that might have been sent with it. THE WITNESS: I don't know. BY MR. GOLOMB: Q. Well, once you author the
7 8 9 10	A. And that is noted at the at the bottom, as well as on the signature. At the footer of the first page it has the corrected date. Q. Well, on Page 10, next to	6 7 8	MR. LOCKE: Or the cover that might have been sent with it. THE WITNESS: I don't know. BY MR. GOLOMB: Q. Well, once you author the report, where does it go?
7 8 9 10 11	A. And that is noted at the at the bottom, as well as on the signature. At the footer of the first page it has the corrected date. Q. Well, on Page 10, next to your signature, it says March 10, 2017.	6 7 8 9 10 11	MR. LOCKE: Or the cover that might have been sent with it. THE WITNESS: I don't know. BY MR. GOLOMB: Q. Well, once you author the report, where does it go? A. The real question is after I
7 8 9 10 11 12	A. And that is noted at the at the bottom, as well as on the signature. At the footer of the first page it has the corrected date. Q. Well, on Page 10, next to your signature, it says March 10, 2017. A. Yes. And that's what it	6 7 8 9 10 11 12	MR. LOCKE: Or the cover that might have been sent with it.  THE WITNESS: I don't know. BY MR. GOLOMB: Q. Well, once you author the report, where does it go? A. The real question is after I authored
7 8 9 10 11 12 13	A. And that is noted at the at the bottom, as well as on the signature. At the footer of the first page it has the corrected date. Q. Well, on Page 10, next to your signature, it says March 10, 2017. A. Yes. And that's what it says in the footer on Page 1.	6 7 8 9 10 11 12 13	MR. LOCKE: Or the cover that might have been sent with it.  THE WITNESS: I don't know. BY MR. GOLOMB: Q. Well, once you author the report, where does it go? A. The real question is after I authored Q. No, that's my question. My
7 8 9 10 11 12 13	A. And that is noted at the at the bottom, as well as on the signature. At the footer of the first page it has the corrected date. Q. Well, on Page 10, next to your signature, it says March 10, 2017. A. Yes. And that's what it says in the footer on Page 1. Q. It says what?	6 7 8 9 10 11 12 13 14	MR. LOCKE: Or the cover that might have been sent with it.  THE WITNESS: I don't know. BY MR. GOLOMB: Q. Well, once you author the report, where does it go? A. The real question is after I authored Q. No, that's my question. My question is the real question.
7 8 9 10 11 12 13 14	A. And that is noted at the at the bottom, as well as on the signature. At the footer of the first page it has the corrected date. Q. Well, on Page 10, next to your signature, it says March 10, 2017. A. Yes. And that's what it says in the footer on Page 1. Q. It says what? A. "Borak report, 3/10/17."	6 7 8 9 10 11 12 13 14 15	MR. LOCKE: Or the cover that might have been sent with it.  THE WITNESS: I don't know. BY MR. GOLOMB: Q. Well, once you author the report, where does it go? A. The real question is after I authored Q. No, that's my question. My question is the real question. A. Okay. Then you give me the
7 8 9 10 11 12 13 14 15	A. And that is noted at the at the bottom, as well as on the signature. At the footer of the first page it has the corrected date. Q. Well, on Page 10, next to your signature, it says March 10, 2017. A. Yes. And that's what it says in the footer on Page 1. Q. It says what? A. "Borak report, 3/10/17." Q. Right. So why is the why	6 7 8 9 10 11 12 13 14 15 16	MR. LOCKE: Or the cover that might have been sent with it.  THE WITNESS: I don't know. BY MR. GOLOMB: Q. Well, once you author the report, where does it go? A. The real question is after I authored Q. No, that's my question. My question is the real question. A. Okay. Then you give me the real question.
7 8 9 10 11 12 13 14 15 16 17	A. And that is noted at the at the bottom, as well as on the signature. At the footer of the first page it has the corrected date. Q. Well, on Page 10, next to your signature, it says March 10, 2017. A. Yes. And that's what it says in the footer on Page 1. Q. It says what? A. "Borak report, 3/10/17." Q. Right. So why is the why does the top of the page still say	6 7 8 9 10 11 12 13 14 15 16 17	MR. LOCKE: Or the cover that might have been sent with it.  THE WITNESS: I don't know. BY MR. GOLOMB: Q. Well, once you author the report, where does it go? A. The real question is after I authored Q. No, that's my question. My question is the real question. A. Okay. Then you give me the real question. Q. The real question is, once
7 8 9 10 11 12 13 14 15 16 17	A. And that is noted at the at the bottom, as well as on the signature. At the footer of the first page it has the corrected date. Q. Well, on Page 10, next to your signature, it says March 10, 2017. A. Yes. And that's what it says in the footer on Page 1. Q. It says what? A. "Borak report, 3/10/17." Q. Right. So why is the why does the top of the page still say January 17th?	6 7 8 9 10 11 12 13 14 15 16 17	MR. LOCKE: Or the cover that might have been sent with it.  THE WITNESS: I don't know. BY MR. GOLOMB:  Q. Well, once you author the report, where does it go?  A. The real question is after I authored  Q. No, that's my question. My question is the real question.  A. Okay. Then you give me the real question.  Q. The real question is, once you wrote your report dated January 17th,
7 8 9 10 11 12 13 14 15 16 17 18	A. And that is noted at the at the bottom, as well as on the signature. At the footer of the first page it has the corrected date. Q. Well, on Page 10, next to your signature, it says March 10, 2017. A. Yes. And that's what it says in the footer on Page 1. Q. It says what? A. "Borak report, 3/10/17." Q. Right. So why is the why does the top of the page still say January 17th? A. It was a supplement to that	6 7 8 9 10 11 12 13 14 15 16 17 18	MR. LOCKE: Or the cover that might have been sent with it.  THE WITNESS: I don't know. BY MR. GOLOMB:  Q. Well, once you author the report, where does it go?  A. The real question is after I authored  Q. No, that's my question. My question is the real question.  A. Okay. Then you give me the real question.  Q. The real question is, once you wrote your report dated January 17th, 2000 that says January 17th at the top
7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. And that is noted at the at the bottom, as well as on the signature. At the footer of the first page it has the corrected date. Q. Well, on Page 10, next to your signature, it says March 10, 2017. A. Yes. And that's what it says in the footer on Page 1. Q. It says what? A. "Borak report, 3/10/17." Q. Right. So why is the why does the top of the page still say January 17th? A. It was a supplement to that earlier report, but it probably should	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. LOCKE: Or the cover that might have been sent with it.  THE WITNESS: I don't know.  BY MR. GOLOMB:  Q. Well, once you author the report, where does it go?  A. The real question is after I authored  Q. No, that's my question. My question is the real question.  A. Okay. Then you give me the real question.  Q. The real question is, once you wrote your report dated January 17th, 2000 that says January 17th at the top of the page, where did it go?
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. And that is noted at the at the bottom, as well as on the signature. At the footer of the first page it has the corrected date. Q. Well, on Page 10, next to your signature, it says March 10, 2017. A. Yes. And that's what it says in the footer on Page 1. Q. It says what? A. "Borak report, 3/10/17." Q. Right. So why is the why does the top of the page still say January 17th? A. It was a supplement to that earlier report, but it probably should have been changed. I'm telling you it's probably because I'm sloppy.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. LOCKE: Or the cover that might have been sent with it.  THE WITNESS: I don't know. BY MR. GOLOMB:  Q. Well, once you author the report, where does it go?  A. The real question is after I authored  Q. No, that's my question. My question is the real question.  A. Okay. Then you give me the real question.  Q. The real question is, once you wrote your report dated January 17th, 2000 that says January 17th at the top of the page, where did it go?  MR. LOCKE: Objection.  THE WITNESS: It would have
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. And that is noted at the at the bottom, as well as on the signature. At the footer of the first page it has the corrected date. Q. Well, on Page 10, next to your signature, it says March 10, 2017. A. Yes. And that's what it says in the footer on Page 1. Q. It says what? A. "Borak report, 3/10/17." Q. Right. So why is the why does the top of the page still say January 17th? A. It was a supplement to that earlier report, but it probably should have been changed. I'm telling you it's probably because I'm sloppy. Q. Well, when you say when	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MR. LOCKE: Or the cover that might have been sent with it.  THE WITNESS: I don't know. BY MR. GOLOMB:  Q. Well, once you author the report, where does it go?  A. The real question is after I authored  Q. No, that's my question. My question is the real question.  A. Okay. Then you give me the real question.  Q. The real question is, once you wrote your report dated January 17th, 2000 that says January 17th at the top of the page, where did it go?  MR. LOCKE: Objection.  THE WITNESS: It would have been a file on my computer.
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. And that is noted at the at the bottom, as well as on the signature. At the footer of the first page it has the corrected date. Q. Well, on Page 10, next to your signature, it says March 10, 2017. A. Yes. And that's what it says in the footer on Page 1. Q. It says what? A. "Borak report, 3/10/17." Q. Right. So why is the why does the top of the page still say January 17th? A. It was a supplement to that earlier report, but it probably should have been changed. I'm telling you it's probably because I'm sloppy.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. LOCKE: Or the cover that might have been sent with it.  THE WITNESS: I don't know. BY MR. GOLOMB:  Q. Well, once you author the report, where does it go?  A. The real question is after I authored  Q. No, that's my question. My question is the real question.  A. Okay. Then you give me the real question.  Q. The real question is, once you wrote your report dated January 17th, 2000 that says January 17th at the top of the page, where did it go?  MR. LOCKE: Objection.  THE WITNESS: It would have

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2 had to go to somebody outside of your 2 were drafts, draft 3 office. 3 transmittal letter of	Page 212
2 had to go to somebody outside of your 2 were drafts, draft 3 office. 3 transmittal letter of	o if if there
3 office. 3 transmittal letter of	
	of some form where you
	a third party, they
5 BY MR. GOLOMB: 5 that maybe not	
	vould still be in your
7 hardcopy or some other form of digital 7 system?	·
8 communication. 8 A. Possibly	•
	en you in in
	u complete whether
somebody in January. And I don't 11 and whether it's in	
12 remember. 12 draft or 2017, or y	our report in the
	19, when you complete
	t, does it go to TASA,
15 A. Almost certainly not. 15 or does it go to M	
· · · · · · · · · · · · · · · · · · ·	CKE: Objection.
17 information from your files? 17 THE WIT	NESS: When the
18 A. I I delete I delete 18 report is com	pleted?
drafts. I don't keep drafts as a matter 19 BY MR. GOLOM	ÍB:
20 of principle. 20 Q. Yeah.	
Q. Why do why do you delete 21 A. I would	send it to
22 drafts? 22 Mr. Locke.	
A. Because they accumulate. 23 Q. Okay. A	and does does he
When I write, I update whatever I'm 24 send something ba	ack to you?
Page 211	Page 213
1 writing on, day by day, so I can find 1 MR. LOO	CKE: Objection.
	GARTY: Objection.
3 have 20 or 30 pieces. And I dispose of 3 MR. LOO	CKE: You're not
4 them, because otherwise they clutter 4 entitled to ge	et into our
5 everything. 5 communicati	ons.
6 Q. And do you have the 6 MR. GO	LOMB: Are you
7 transmittal letters or transmittal 7 instructing h	im not to answer?
8 e-mails when you when you send your 8 MR. LO	CKE: Correct.
9 reports to a third person? 9 BY MR. GOLON	MB:
	is that a possible
	why your report dated
	, wasn't signed off until
13 well? 13 March of 2017?	
14	CKE: Objection.
15 MR. LOCKE: Objection. 15 BY MR. GOLOM	e somebody else was
15 MR. LOCKE: Objection. 15 BY MR. GOLOM 16 BY MR. GOLOMB: 16 Q. Because	
15 MR. LOCKE: Objection. 15 BY MR. GOLOM 16 BY MR. GOLOMB: 16 Q. Because 17 Q. Excuse me? 17 looking at it and of	
15 MR. LOCKE: Objection.  16 BY MR. GOLOMB:  17 Q. Excuse me?  18 A. Not intentionally.  15 BY MR. GOLOM  16 Q. Because  17 looking at it and of the second	CKE: Objection.
15 MR. LOCKE: Objection. 16 BY MR. GOLOMB: 17 Q. Excuse me? 18 A. Not intentionally. 19 MR. LOCKE: Objection. 15 BY MR. GOLOM 16 Q. Because 17 looking at it and of the many o	CKE: Objection. FNESS: It was
15 MR. LOCKE: Objection.  16 BY MR. GOLOMB:  17 Q. Excuse me?  18 A. Not intentionally.  19 MR. LOCKE: Objection.  10 DY MR. LOCKE: Objection.  11 DY MR. LOCKE: Objection.  12 THE WI'  13 October 19 THE WI'  14 October 19 THE WI'  15 BY MR. GOLOMB: I heard you. I 20 Certainly not	CKE: Objection. TNESS: It was that. But I don't
15 MR. LOCKE: Objection.  16 BY MR. GOLOMB: 17 Q. Excuse me? 18 A. Not intentionally. 19 MR. LOCKE: Objection. 20 MR. GOLOMB: I heard you. I 21 didn't hear him. 21 BY MR. GOLOM 21 BY MR. GOLOM 21 BY MR. GOLOM 21 Certainly not 21 know why the	CKE: Objection. TNESS: It was that. But I don't lat happened.
15 MR. LOCKE: Objection.  16 BY MR. GOLOMB:  17 Q. Excuse me?  18 A. Not intentionally.  19 MR. LOCKE: Objection.  19 MR. LOCKE: Objection.  20 MR. GOLOMB: I heard you. I  21 didn't hear him.  22 BY MR. GOLOMB	CKE: Objection.  FNESS: It was that. But I don't lat happened.  MB:
15 MR. LOCKE: Objection.  16 BY MR. GOLOMB:  17 Q. Excuse me?  18 A. Not intentionally.  19 MR. LOCKE: Objection.  19 MR. LOCKE: Objection.  20 MR. GOLOMB: I heard you. I  21 didn't hear him.  22 THE WITNESS: Not  23 Q. All right	CKE: Objection. TNESS: It was that. But I don't lat happened.

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	Page 214		Daga 216
_	Page 214		Page 216
1	March 10th, is followed by a deposition	1	A. I don't have a specific
2	that takes place on June 8, 2017.	2	recollection. But I accept what you've
3	A. I accept that as the dates.	3	said as probably true.
4	Q. Did you review that earlier	4	Q. Okay. I'll just show you
5	deposition in the Oules case to assist	5	that page.
6	you in your preparation here today?	6	A. That's what it says.
7	A. Yes, I did.	7	Q. Okay. When did you last
8	Q. Do you recall and I	8	read this deposition?
9	imagine you would, since it was Mr. Green	9	A. Last week.
10	taking the deposition. Do you recall how	10	Q. Last week.
11	long that deposition took?	11	Let me just ask you. Let me
12	A. No.	12	just I'm going to refer to Page 97 of
13	Q. Is it fair to say that it	13	the I'll read it and then I'll show it
14	took hours?	14	to you. And this is from the Oules
15	A. I don't know.	15	deposition on June 8th of 2017, on Page
16	Q. Okay. If we look at the	16	97.
17	deposition transcript so, the	17	The question was, "With
18	deposition transcript so, the deposition transcript indicates the date	18	regard to 'accepted methods for proving
19		19	causality,' you have not done that
	of Thursday, June 8, 2017. It began at	20	examined that in your report.
20	8:57 in the morning at the New Haven	21	· ·
21	Hotel. Do you recall that? Is that	l	And your answer was, "Yes,
22	consistent with your recollection?	22	that's correct.
23	MR. LOCKE: Objection.	23	"Question: With respect to
24	You're saying "if we look at." We	24	risk factors of ovarian cancer, you have
	Page 215		Page 217
1	don't have the deposition. If you	1	not provided risk factors for ovarian
2	want to attach that or show him	2	cancer in your report; is that correct?
3	the copy.	3	"Answer: I have not listed
4	MR. GOLOMB: I'm handing you	4	them. That's correct.
5	the	5	"Question: And then the
6	BY MR. GOLOMB:	6	nature of talc from a toxicology
7	Q. It was a simple question,	7	standpoint, you've not provided an
8	and here's what I'm referring to, which	8	examination of the toxicology of talc in
9	is the front page of the deposition	9	your report; is that correct?"
10	transcript.	10	And your answer was:
11	A. That is the front page.	11	"That's correct."
12	That is the front page. Yes,	12	And I just want to confirm
13	correct.	13	that that was true on June 8th of 2017 as
<b></b>		14	it referred to your earlier reports, and
		T.#	it icitited to your tailler lepoits, alld
14	Q. At 8:57 a.m.?	1	<u> </u>
14 15	A. That's what it says.	15 16	that's true today as it applies to your
14 15 16	<ul><li>A. That's what it says.</li><li>Q. Okay. And if we look at the</li></ul>	16	that's true today as it applies to your February 25, 2019, report; is that
14 15 16 17	A. That's what it says. Q. Okay. And if we look at the final page of the deposition well,	16 17	that's true today as it applies to your February 25, 2019, report; is that correct?
14 15 16 17 18	A. That's what it says. Q. Okay. And if we look at the final page of the deposition well, near the final page, it says, "Whereupon,	16 17 18	that's true today as it applies to your February 25, 2019, report; is that correct?  MR. HEGARTY: Objection.
14 15 16 17 18	A. That's what it says. Q. Okay. And if we look at the final page of the deposition well, near the final page, it says, "Whereupon, the deposition was concluded at	16 17 18 19	that's true today as it applies to your February 25, 2019, report; is that correct?  MR. HEGARTY: Objection.  MR. LOCKE: Objection.
14 15 16 17 18 19 20	A. That's what it says. Q. Okay. And if we look at the final page of the deposition well, near the final page, it says, "Whereupon, the deposition was concluded at 12:18 p.m."	16 17 18 19 20	that's true today as it applies to your February 25, 2019, report; is that correct?  MR. HEGARTY: Objection.  MR. LOCKE: Objection.  There are actually multiple
14 15 16 17 18 19 20 21	A. That's what it says. Q. Okay. And if we look at the final page of the deposition well, near the final page, it says, "Whereupon, the deposition was concluded at 12:18 p.m."  Is that consistent with your	16 17 18 19 20 21	that's true today as it applies to your February 25, 2019, report; is that correct?  MR. HEGARTY: Objection.  MR. LOCKE: Objection.  There are actually multiple issues, I won't get into them,
14 15 16 17 18 19 20 21 22	A. That's what it says. Q. Okay. And if we look at the final page of the deposition well, near the final page, it says, "Whereupon, the deposition was concluded at 12:18 p.m."  Is that consistent with your recollection, that the deposition took	16 17 18 19 20 21 22	that's true today as it applies to your February 25, 2019, report; is that correct?  MR. HEGARTY: Objection.  MR. LOCKE: Objection.  There are actually multiple issues, I won't get into them, but
14 15 16 17 18 19 20 21	A. That's what it says. Q. Okay. And if we look at the final page of the deposition well, near the final page, it says, "Whereupon, the deposition was concluded at 12:18 p.m."  Is that consistent with your	16 17 18 19 20 21	that's true today as it applies to your February 25, 2019, report; is that correct?  MR. HEGARTY: Objection.  MR. LOCKE: Objection.  There are actually multiple issues, I won't get into them,

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	Page 218		Page 220
1	page deposition, I'm sure.	1	BY MR. GOLOMB:
2	MR. GOLOMB: Feel free to	2	Q. Right. And in fact, you
3	on redirect, if you're going to do	3	quoted in part some of the basis for
4	one, to ask him whatever you want	4	their conclusions in your report of 2019?
5	about that deposition.	5	A. I did quote from some of
6	MR. LOCKE: And you should	6	them, yes.
7	feel free to ask him questions	7	Q. Okay. So let's go back to
8	about his report here and not his	8	Exhibit 7, which is your report dated
9	deposition there, but again	9	February 25, 2019. On the first page you
10	MR. GOLOMB: They're not	10	have a footnote there.
11	mutually exclusive. That's going	11	Do you see that?
12	to happen. Be patient.	12	A. Yes.
13	THE WITNESS: You have read	13	Q. And the footnote says,
14	this correctly.	14	"Along with the principles of toxicology
15	BY MR. GOLOMB:	15	e.g., dose-response, toxicokinetics, and
16	Q. Okay. And my and my	16	risk assessment, e.g., basis of risk
17	question was, that was true then as it	17	extrapolation, my teaching includes the
18	relates to your report and your testimony	18	following topics of possible relevance to
19	in 2017, and that's true now as it	19	the present matter: Design, development
20	relates to your 2019 report and your	20	and interpretation of epidemiological
21	testimony here today?	21	studies, e.g., cohort versus
22	MR. LOCKE: Objection. His	22	case-control, prospective versus
23	opinions are reflected in his	23	retrospective, causal inference, e.g.,
24	report, Exhibit 7.	24	Hill's Postulates, Koch's Postulates, and
	roport, Edinore 7.		Tim's Fostulates, Roen's Fostulates, and
	Page 219		Page 221
			3-
1	MR. HEGARTY: Objection.	1	
1 2	MR. HEGARTY: Objection. THE WITNESS: I've explained	1 2	biological models of cancer."  Did I read that correctly?
	· · · · · · · · · · · · · · · · · · ·		biological models of cancer."
2	THE WITNESS: I've explained	2	biological models of cancer."  Did I read that correctly?
2	THE WITNESS: I've explained that I was not I explained that	2 3	biological models of cancer."  Did I read that correctly?  A. You read that correctly.
2 3 4	THE WITNESS: I've explained that I was not I explained that I was asked to discuss whether,	2 3 4	biological models of cancer."  Did I read that correctly?  A. You read that correctly.  Q. You you are not offering
2 3 4 5	THE WITNESS: I've explained that I was not I explained that I was asked to discuss whether, when and by whom it had been	2 3 4 5	biological models of cancer."  Did I read that correctly?  A. You read that correctly.  Q. You you are not offering an opinion on the hierarchy of evidence,
2 3 4 5 6	THE WITNESS: I've explained that I was not I explained that I was asked to discuss whether, when and by whom it had been determined that perineal use of	2 3 4 5 6	biological models of cancer."  Did I read that correctly?  A. You read that correctly.  Q. You you are not offering an opinion on the hierarchy of evidence, correct?
2 3 4 5 6 7	THE WITNESS: I've explained that I was not I explained that I was asked to discuss whether, when and by whom it had been determined that perineal use of talc-containing powder causes	2 3 4 5 6 7	biological models of cancer."  Did I read that correctly?  A. You read that correctly. Q. You you are not offering an opinion on the hierarchy of evidence, correct?  MR. LOCKE: Objection.
2 3 4 5 6 7 8	THE WITNESS: I've explained that I was not I explained that I was asked to discuss whether, when and by whom it had been determined that perineal use of talc-containing powder causes ovarian cancer.	2 3 4 5 6 7 8	biological models of cancer."  Did I read that correctly?  A. You read that correctly. Q. You you are not offering an opinion on the hierarchy of evidence, correct?  MR. LOCKE: Objection. THE WITNESS: I am not
2 3 4 5 6 7 8 9	THE WITNESS: I've explained that I was not I explained that I was asked to discuss whether, when and by whom it had been determined that perineal use of talc-containing powder causes ovarian cancer.  I was not asked to opine	2 3 4 5 6 7 8	biological models of cancer."  Did I read that correctly?  A. You read that correctly. Q. You you are not offering an opinion on the hierarchy of evidence, correct?  MR. LOCKE: Objection.  THE WITNESS: I am not depending upon that.
2 3 4 5 6 7 8 9	THE WITNESS: I've explained that I was not I explained that I was asked to discuss whether, when and by whom it had been determined that perineal use of talc-containing powder causes ovarian cancer.  I was not asked to opine about specific risk factors, other	2 3 4 5 6 7 8 9	biological models of cancer."  Did I read that correctly?  A. You read that correctly. Q. You you are not offering an opinion on the hierarchy of evidence, correct?  MR. LOCKE: Objection.  THE WITNESS: I am not depending upon that. BY MR. GOLOMB:
2 3 4 5 6 7 8 9 10	THE WITNESS: I've explained that I was not I explained that I was asked to discuss whether, when and by whom it had been determined that perineal use of talc-containing powder causes ovarian cancer.  I was not asked to opine about specific risk factors, other than ovarian cancer.	2 3 4 5 6 7 8 9 10 11	biological models of cancer."  Did I read that correctly?  A. You read that correctly. Q. You you are not offering an opinion on the hierarchy of evidence, correct?  MR. LOCKE: Objection.  THE WITNESS: I am not depending upon that.  BY MR. GOLOMB: Q. Well, not depending on it
2 3 4 5 6 7 8 9 10 11 12	THE WITNESS: I've explained that I was not I explained that I was asked to discuss whether, when and by whom it had been determined that perineal use of talc-containing powder causes ovarian cancer.  I was not asked to opine about specific risk factors, other than ovarian cancer.  And I was not asked to opine	2 3 4 5 6 7 8 9 10 11 12	biological models of cancer."  Did I read that correctly?  A. You read that correctly. Q. You you are not offering an opinion on the hierarchy of evidence, correct?  MR. LOCKE: Objection.  THE WITNESS: I am not depending upon that.  BY MR. GOLOMB: Q. Well, not depending on it and not offering an opinion on it at all
2 3 4 5 6 7 8 9 10 11 12 13	THE WITNESS: I've explained that I was not I explained that I was asked to discuss whether, when and by whom it had been determined that perineal use of talc-containing powder causes ovarian cancer.  I was not asked to opine about specific risk factors, other than ovarian cancer.  And I was not asked to opine on causality from the standpoint	2 3 4 5 6 7 8 9 10 11 12 13	biological models of cancer."  Did I read that correctly?  A. You read that correctly. Q. You you are not offering an opinion on the hierarchy of evidence, correct?  MR. LOCKE: Objection.  THE WITNESS: I am not depending upon that.  BY MR. GOLOMB: Q. Well, not depending on it and not offering an opinion on it at all are two different questions, correct?
2 3 4 5 6 7 8 9 10 11 12 13 14	THE WITNESS: I've explained that I was not I explained that I was asked to discuss whether, when and by whom it had been determined that perineal use of talc-containing powder causes ovarian cancer.  I was not asked to opine about specific risk factors, other than ovarian cancer.  And I was not asked to opine on causality from the standpoint of the methods used by those	2 3 4 5 6 7 8 9 10 11 12 13 14	biological models of cancer."  Did I read that correctly?  A. You read that correctly.  Q. You you are not offering an opinion on the hierarchy of evidence, correct?  MR. LOCKE: Objection.  THE WITNESS: I am not depending upon that.  BY MR. GOLOMB:  Q. Well, not depending on it and not offering an opinion on it at all are two different questions, correct?  MR. LOCKE: Objection.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	THE WITNESS: I've explained that I was not I explained that I was asked to discuss whether, when and by whom it had been determined that perineal use of talc-containing powder causes ovarian cancer.  I was not asked to opine about specific risk factors, other than ovarian cancer.  And I was not asked to opine on causality from the standpoint of the methods used by those authors, although I looked at them	2 3 4 5 6 7 8 9 10 11 12 13 14 15	biological models of cancer."  Did I read that correctly?  A. You read that correctly. Q. You you are not offering an opinion on the hierarchy of evidence, correct?  MR. LOCKE: Objection.  THE WITNESS: I am not depending upon that.  BY MR. GOLOMB: Q. Well, not depending on it and not offering an opinion on it at all are two different questions, correct?  MR. LOCKE: Objection.  THE WITNESS: Yes.
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56 (Pages 218 to 221)

	Page 222		Page 224
1	apologize. But you do not do a Bradford	1	A. Although the names may be in
2	Hill analysis?	2	the specific, I'm not sure. But you've
3	MR. LOCKE: Objection.	3	got that in your with your materials.
4	THE WITNESS: Yes, I did not	4	Q. Well, I've asked you about
5	do a Bradford Hill analysis.	5	Dr. Smith-Bindman, do you remember
6	BY MR. GOLOMB:	6	A. I remember her
7	Q. Okay. And in fact, the only	7	Q reviewing her expert
8	place where Bradford Hill was even	8	report?
9	referenced in the body of your report is	9	Do you remember reviewing
10	in the in this footnote where you	10	her expert report?
11	reference the Hill's postulates?	11	A. I I may very well. I
12	MR. LOCKE: Objection.	12	have to look. I don't remember.
13	THE WITNESS: I did not do a	13	Q. Do you remember Dr. Moorman,
14	Bradford Hill analysis.	14	M-O-O-R-M-A-N?
15	BY MR. GOLOMB:	15	A. I I remember the name,
16	Q. My question was, the only	16	but I couldn't at the moment, I would
17	place in your report where Hill is even	17	not be able to tell you the content of
18	mentioned is in that footnote.	18	the report.
19	A. That is not a question.	19	<u>-</u>
20	Q. That was my question?	20	Q. Dr. McTiernan? A. I have reviewed
21	A. That's a statement.	21	
22	Q. Isn't that correct?	22	Dr. McTiernan's report.
23	A. Yes, that's correct.		<ul><li>Q. Dr. Siemiatycki?</li><li>A. I know I have read two of</li></ul>
24	Q. Thank you. And I just want	23	
24	Q. Thank you. And I just want	24	those.
	Page 223		Page 225
			1430 220
1	to be clear. When you go to Page 2 your	1	Q. Dr. Song?
1 2	to be clear. When you go to Page 2 your report, Paragraph 9, you mentioned that	1 2	
		1	Q. Dr. Song?
2	report, Paragraph 9, you mentioned that	2	<ul><li>Q. Dr. Song?</li><li>A. I think I have reviewed</li></ul>
2	report, Paragraph 9, you mentioned that you considered expert reports produced	2 3	Q. Dr. Song? A. I think I have reviewed that.
2 3 4	report, Paragraph 9, you mentioned that you considered expert reports produced both in the federal MDL, as well as prior	2 3 4	<ul><li>Q. Dr. Song?</li><li>A. I think I have reviewed that.</li><li>Q. Dr. Colditz?</li></ul>
2 3 4 5	report, Paragraph 9, you mentioned that you considered expert reports produced both in the federal MDL, as well as prior talc ovarian cancer litigation, right?	2 3 4 5	<ul> <li>Q. Dr. Song?</li> <li>A. I think I have reviewed</li> <li>that.</li> <li>Q. Dr. Colditz?</li> <li>A. I certainly have reviewed a number of his things.</li> </ul>
2 3 4 5 6	report, Paragraph 9, you mentioned that you considered expert reports produced both in the federal MDL, as well as prior talc ovarian cancer litigation, right?  And so, which means to me, correct me if	2 3 4 5 6	<ul> <li>Q. Dr. Song?</li> <li>A. I think I have reviewed</li> <li>that.</li> <li>Q. Dr. Colditz?</li> <li>A. I certainly have reviewed a number of his things.</li> </ul>
2 3 4 5 6 7	report, Paragraph 9, you mentioned that you considered expert reports produced both in the federal MDL, as well as prior talc ovarian cancer litigation, right? And so, which means to me, correct me if I'm wrong, that means the expert reports	2 3 4 5 6 7	<ul> <li>Q. Dr. Song?</li> <li>A. I think I have reviewed</li> <li>that.</li> <li>Q. Dr. Colditz?</li> <li>A. I certainly have reviewed a number of his things.</li> <li>Q. Did you know Dr. Colditz</li> </ul>
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	report, Paragraph 9, you mentioned that you considered expert reports produced both in the federal MDL, as well as prior talc ovarian cancer litigation, right? And so, which means to me, correct me if I'm wrong, that means the expert reports in Oules, in D.C., which we've already referred to, correct?  MR. HEGARTY: Objection.  THE WITNESS: You've previously referred to, correct.  BY MR. GOLOMB:  Q. And Mr. Locke also referred to a previous report in the New Jersey state litigation. Did you read did you read the expert reports of the plaintiffs' experts from the New Jersey state court litigation?  A. I very well may have. I have provided to you a list of materials considered. But I don't know them by the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Dr. Song? A. I think I have reviewed that. Q. Dr. Colditz? A. I certainly have reviewed a number of his things. Q. Did you know Dr. Colditz before this litigation? A. Only by name. Q. And like Dr. Siemiatycki A. When you say this litigation, Mr I thought Dr. Colditz was not involved in this MDL. Q. Did did you know who Dr. Colditz was before you were involved in any form or fashion in the talc litigation? A. Yes, of course. Q. Okay. When you say yes of course, what do you mean? A. I mean he's very well known. Q. Very well known, very well
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	report, Paragraph 9, you mentioned that you considered expert reports produced both in the federal MDL, as well as prior talc ovarian cancer litigation, right? And so, which means to me, correct me if I'm wrong, that means the expert reports in Oules, in D.C., which we've already referred to, correct?  MR. HEGARTY: Objection.  THE WITNESS: You've previously referred to, correct.  BY MR. GOLOMB:  Q. And Mr. Locke also referred to a previous report in the New Jersey state litigation. Did you read did you read the expert reports of the plaintiffs' experts from the New Jersey state court litigation?  A. I very well may have. I have provided to you a list of materials	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Dr. Song? A. I think I have reviewed that. Q. Dr. Colditz? A. I certainly have reviewed a number of his things. Q. Did you know Dr. Colditz before this litigation? A. Only by name. Q. And like Dr. Siemiatycki A. When you say this litigation, Mr I thought Dr. Colditz was not involved in this MDL. Q. Did did you know who Dr. Colditz was before you were involved in any form or fashion in the talc litigation? A. Yes, of course. Q. Okay. When you say yes of course, what do you mean? A. I mean he's very well known.

57 (Pages 222 to 225)

Jonathan Borak, M.D., DABT

	Page 226		Page 228
1	MR. LOCKE: Objection.	1	Q. Well, did do you know as
2	THE WITNESS: He's very well	2	you sit here today whether or not
3	known.	3	Dr. Cramer wrote more than one article on
4	BY MR. GOLOMB:	4	the association between talc and ovarian
5	Q. Very well respected?	5	cancer in 1999?
6	A. Very possibly.	6	A. I do not know.
7	Q. Dr. Cramer, did you read	7	Q. Okay.
8	his his reports?	8	MR. LOCKE: Would now be a
9	A. I've read a number of his	9	good time to take our lunch break?
10	reports.	10	MR. GOLOMB: Sure.
11	Q. Okay. And, in fact, you	11	MR. LOCKE: Should we
12	know that Dr. Cramer has been studying	12	before we go, let me just check
13	and researching the association between	13	and make sure it's out there.
14	talc and ovarian cancer since at least	14	THE VIDEOGRAPHER: We are
15	1982, correct?	15	going off record. The time is
16	A. Yes	16	12:28 p.m.
17	MR. HEGARTY: Objection.	17	
18	THE WITNESS: Dr. Cramer	18	(Lunch break.)
19	has been advocating causes of	19	
20	ovarian cancer, different ones,	20	THE VIDEOGRAPHER: We're
21	periodically, for a number of	21	going back on record. Beginning
22	years as well.	22	of Media File Number 3. The time
23	BY MR. GOLOMB:	23	is 1:10.
24	Q. Okay. And and you and	24	BY MR. GOLOMB:
	Page 227		Page 229
1	one of the reports you read was his 1999	1	Q. Now, Dr. Borak, we were
2	study, correct?	2	talking about Exhibit 7 which is your
3	A. I'm sure that I did. I	3	report. And before I go back to that, I
4	think I've read almost everything that	4	know we we pretty exhaustively went
5	Dr. Cramer has written on ovarian cancer.	5	through your pre-MDL billing. And I want
6	Q. Okay. And	6	to talk a little bit about your the
7	A. But specifically is it on my	7	billing from that begins May 26 of
8	list?	8	2017 of 2017, which is about two weeks
9	MR. LOCKE: It wouldn't be	9	before your Oules deposition. And that
10	there.	10	goes through February 25th of 2019, which
11	THE WITNESS: Okay.	11	is Exhibit 3.
12	BY MR. GOLOMB:	12	(Document marked for
13	Q. Well, do do you recall	13	identification as Exhibit
14	A. I know I had a Cramer '99 is	14	Borak-3.)
15	perhaps would you tell me whether you	15	BY MR. GOLOMB:
	are talking about the one which is	16	Q. And I just wanted to make
16	are tarking about the one which is		
16 17	Number 5?	17	sure that because before you seemed a
16 17 18	<u> </u>	17 18	sure that because before you seemed a little bit surprised at that total, which
16 17	Number 5?	1	<del>-</del>
16 17 18	Number 5? Q. Well, I I just referred	18	little bit surprised at that total, which
16 17 18 19 20 21	Number 5? Q. Well, I I just referred to the 1999 study. Is that something you	18 19	little bit surprised at that total, which is an additional \$283,223.25.
16 17 18 19 20	Number 5?  Q. Well, I I just referred to the 1999 study. Is that something you would  A. I understand. I don't know how many he wrote in 1999. I have one of	18 19 20	little bit surprised at that total, which is an additional \$283,223.25.  A. I I'm still surprised,
16 17 18 19 20 21	Number 5?  Q. Well, I I just referred to the 1999 study. Is that something you would  A. I understand. I don't know	18 19 20 21	little bit surprised at that total, which is an additional \$283,223.25.  A. I I'm still surprised, but thank you.

	Page 230		Page 232
1	TASA sends their bill to Mr. Locke,	1	start writing your report?
2	correct?	2	MR. LOCKE: Objection.
3	A. That's correct.	3	THE WITNESS: I wasn't asked
4	Q. All right. And I also made	4	to write a report until I had done
5	a statement before and I wanted to make	5	a great deal of reading. I don't
6	sure you knew where that came from.	6	remember when I was first asked to
7	MR. GOLOMB: Let's mark	7	write a report. I know when the
8	we'll have this marked as	8	first report generally was
9	Exhibit 33.	9	delivered. You you've got a
10	(Document marked for	10	report at least with Oules date on
11	identification as Exhibit	11	it. And I can't recall
12	Borak-33.)	12	specifically the steps that led up
13	BY MR. GOLOMB:	13	to the day that I was asked to
14	Q. Which is a memorandum from	14	write it.
15	Benjamin Isser, who is the attorney	15	BY MR. GOLOMB:
16	sitting to my right, who at my request	16	Q. So you don't so you don't
17	went through the invoices for all the	17	remember what you did other than a lot of
18	plaintiffs' experts on all the	18	reading before you started writing your
19	plaintiff epidemiologists, and through	19	MDL report?
20	their testimony in the depositions they	20	MR. LOCKE: Objection.
21	came, because I made a statement to you	21	THE WITNESS: I I read a
22	that your billing was was close to	22	great deal. I organized that.
23	\$600,000 and was more than the all the	23	I'm not quite sure what else
24	epidemiologists combined. And I wanted	24	you're asking about.
	Page 231		Page 233
1	you to see where that came from.	1	
1 2	you to see where that came from.  And as you can see, their	1 2	BY MR. GOLOMB:
	And as you can see, their		BY MR. GOLOMB: Q. Okay. Well, as we indicated
2	· · · ·	2	BY MR. GOLOMB: Q. Okay. Well, as we indicated earlier, the literature went back at
2 3	And as you can see, their total billing between four of them is	2 3	BY MR. GOLOMB: Q. Okay. Well, as we indicated earlier, the literature went back at least as far as 1972, right?
2 3 4	And as you can see, their total billing between four of them is less than \$450,000.	2 3 4	BY MR. GOLOMB: Q. Okay. Well, as we indicated earlier, the literature went back at
2 3 4 5	And as you can see, their total billing between four of them is less than \$450,000.  A. Yeah, so I see.	2 3 4 5	BY MR. GOLOMB: Q. Okay. Well, as we indicated earlier, the literature went back at least as far as 1972, right? MR. LOCKE: Objection.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	And as you can see, their total billing between four of them is less than \$450,000.  A. Yeah, so I see. Q. Okay. MR. LOCKE: I'm just going to object. You know, we haven't had a chance to verify any of that.  BY MR. GOLOMB: Q. Well, let's let's go back to your report, Exhibit 7, February 25, 2019.  Beginning with the the background on Page 3 under Subsection 3. A. Yes. Q. So, we talked about, my words, the assignment you got from Mr. Locke, followed by your review, as you said, of a lot of reading. A. Yes. Q. Is there anything else that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	BY MR. GOLOMB:  Q. Okay. Well, as we indicated earlier, the literature went back at least as far as 1972, right?  MR. LOCKE: Objection.  THE WITNESS: Please, go ahead.  BY MR. GOLOMB:  Q. Is that correct?  A. I think that it at least 1972.  Q. Okay. Do you remember the Henderson study?  A. Yes. I recall a study by Henderson.  Q. Do you recall what the Henderson study is?  A. I think it may have been a report of histology of ovaries looking at particulates. But I'm not positive that that's exactly how to describe it.  Q. Okay. And that was in 1972?  A. I accept that.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	And as you can see, their total billing between four of them is less than \$450,000.  A. Yeah, so I see. Q. Okay. MR. LOCKE: I'm just going to object. You know, we haven't had a chance to verify any of that.  BY MR. GOLOMB: Q. Well, let's let's go back to your report, Exhibit 7, February 25, 2019. Beginning with the the background on Page 3 under Subsection 3. A. Yes. Q. So, we talked about, my words, the assignment you got from Mr. Locke, followed by your review, as you said, of a lot of reading. A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MR. GOLOMB:  Q. Okay. Well, as we indicated earlier, the literature went back at least as far as 1972, right?  MR. LOCKE: Objection.  THE WITNESS: Please, go ahead.  BY MR. GOLOMB:  Q. Is that correct?  A. I think that it at least 1972.  Q. Okay. Do you remember the Henderson study?  A. Yes. I recall a study by Henderson.  Q. Do you recall what the Henderson study is?  A. I think it may have been a report of histology of ovaries looking at particulates. But I'm not positive that that's exactly how to describe it.  Q. Okay. And that was in 1972?

59 (Pages 230 to 233)

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	Page 234		Page 236
1	study was 1982.	1	You can keep it.
2	A. I think that's correct.	2	BY MR. GOLOMB:
3	Q. All right. And so there was	3	Q. You had mentioned earlier
4	a whole body of evidence between 1972	4	that you kept notes of when you read
5	when the Henderson study came out and	5	stuff. Do you remember that testimony
6	by body of evidence I'm talking about at	6	earlier today?
7	least a couple dozen studies,	7	A. Yes.
8	case-control studies as well as cohort	8	Q. Okay. And the notes that
9	studies, that came out between 2000	9	you keep, are they handwritten notes or
10	I'm sorry, between 1972 and January of	10	are they on a computer?
11	2017, correct?	11	A. They're usually on a
12	MR. LOCKE: Objection.	12	computer.
13	THE WITNESS: Oh yes. Yes,	13	Q. All right. And are those
14	yes, yes.	14	notes would those notes still be
15	BY MR. GOLOMB:	15	available?
16	Q. All right. And that was all	16	A. I suppose so, but I don't
17	stuff that you had reviewed to write your	17	know it.
18	January or February of 2017 report,	18	Q. Would those notes be
19		19	available to you from the notes that
20	right?	20	you wrote before January of 2017 when you
	MR. LOCKE: Or March.	21	•
21	Objection. THE WITNESS: Yes, I		went to write your 2019 report?
22		22	A. The answer is possibly.
23	reviewed a great deal of that. I	23	Q. Okay. So wouldn't it not be
24	provided to you lists of the	24	common sense that you wouldn't need to
	Page 235		Page 237
1	materials that I've reviewed, if	1	re-read everything between 1972 and 2017
1 2	materials that I've reviewed, if that makes this easier for you.	1 2	re-read everything between 1972 and 2017 in order to generate a report in 2019?
			in order to generate a report in 2019?
2	that makes this easier for you.	2	in order to generate a report in 2019?  MR. LOCKE: Objection.
2	that makes this easier for you. BY MR. GOLOMB: Q. And well over 90 percent of	2 3	in order to generate a report in 2019?  MR. LOCKE: Objection.  THE WITNESS: I don't
2 3 4	that makes this easier for you. BY MR. GOLOMB: Q. And well over 90 percent of what you reviewed for your MDL report was	2 3 4	in order to generate a report in 2019?  MR. LOCKE: Objection.
2 3 4 5	that makes this easier for you.  BY MR. GOLOMB:  Q. And well over 90 percent of what you reviewed for your MDL report was the same stuff that you had reviewed for	2 3 4 5	in order to generate a report in 2019?  MR. LOCKE: Objection.  THE WITNESS: I don't understand what you're asking.  BY MR. GOLOMB:
2 3 4 5 6 7	that makes this easier for you.  BY MR. GOLOMB:  Q. And well over 90 percent of what you reviewed for your MDL report was the same stuff that you had reviewed for your 2017 report, and was the same stuff	2 3 4 5 6 7	in order to generate a report in 2019?  MR. LOCKE: Objection.  THE WITNESS: I don't  understand what you're asking.  BY MR. GOLOMB:  Q. All right. You had a body
2 3 4 5 6	that makes this easier for you.  BY MR. GOLOMB:  Q. And well over 90 percent of what you reviewed for your MDL report was the same stuff that you had reviewed for	2 3 4 5 6	in order to generate a report in 2019?  MR. LOCKE: Objection.  THE WITNESS: I don't understand what you're asking.  BY MR. GOLOMB:
2 3 4 5 6 7 8	that makes this easier for you.  BY MR. GOLOMB:  Q. And well over 90 percent of what you reviewed for your MDL report was the same stuff that you had reviewed for your 2017 report, and was the same stuff that had been out there since 1972?	2 3 4 5 6 7 8	in order to generate a report in 2019?  MR. LOCKE: Objection.  THE WITNESS: I don't  understand what you're asking.  BY MR. GOLOMB:  Q. All right. You had a body  of literature. You're put yourself in  January of 2017. Are you with me?
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2 3 4 5 6 7 8 9 10 11	that makes this easier for you.  BY MR. GOLOMB:  Q. And well over 90 percent of what you reviewed for your MDL report was the same stuff that you had reviewed for your 2017 report, and was the same stuff that had been out there since 1972?  MR. LOCKE: Objection.  THE WITNESS: Are you asking me a question?  BY MR. GOLOMB: Q. Isn't that true?	2 3 4 5 6 7 8 9 10 11 12	in order to generate a report in 2019?  MR. LOCKE: Objection.  THE WITNESS: I don't  understand what you're asking.  BY MR. GOLOMB:  Q. All right. You had a body of literature. You're put yourself in  January of 2017. Are you with me?  A. I am in 2017 with you, sir.  Q. Okay. You are writing a  report in the Oules case.  A. Yes, sir.
2 3 4 5 6 7 8 9 10 11 12 13	that makes this easier for you.  BY MR. GOLOMB:  Q. And well over 90 percent of what you reviewed for your MDL report was the same stuff that you had reviewed for your 2017 report, and was the same stuff that had been out there since 1972?  MR. LOCKE: Objection.  THE WITNESS: Are you asking me a question?  BY MR. GOLOMB: Q. Isn't that true? A. I read a huge number of	2 3 4 5 6 7 8 9 10 11 12 13	in order to generate a report in 2019?  MR. LOCKE: Objection.  THE WITNESS: I don't  understand what you're asking.  BY MR. GOLOMB:  Q. All right. You had a body  of literature. You're put yourself in  January of 2017. Are you with me?  A. I am in 2017 with you, sir.  Q. Okay. You are writing a  report in the Oules case.  A. Yes, sir.  Q. And you've reviewed a body
2 3 4 5 6 7 8 9 10 11 12 13	that makes this easier for you.  BY MR. GOLOMB:  Q. And well over 90 percent of what you reviewed for your MDL report was the same stuff that you had reviewed for your 2017 report, and was the same stuff that had been out there since 1972?  MR. LOCKE: Objection.  THE WITNESS: Are you asking me a question?  BY MR. GOLOMB:  Q. Isn't that true?  A. I read a huge number of expert reports and deposition transcripts	2 3 4 5 6 7 8 9 10 11 12 13	in order to generate a report in 2019?  MR. LOCKE: Objection.  THE WITNESS: I don't  understand what you're asking.  BY MR. GOLOMB:  Q. All right. You had a body of literature. You're put yourself in  January of 2017. Are you with me?  A. I am in 2017 with you, sir.  Q. Okay. You are writing a  report in the Oules case.  A. Yes, sir.  Q. And you've reviewed a body of literature between 1972 and 2017 in
2 3 4 5 6 7 8 9 10 11 12 13 14	that makes this easier for you.  BY MR. GOLOMB:  Q. And well over 90 percent of what you reviewed for your MDL report was the same stuff that you had reviewed for your 2017 report, and was the same stuff that had been out there since 1972?  MR. LOCKE: Objection.  THE WITNESS: Are you asking me a question?  BY MR. GOLOMB:  Q. Isn't that true?  A. I read a huge number of expert reports and deposition transcripts because Mr. Locke sent them to me, all	2 3 4 5 6 7 8 9 10 11 12 13 14 15	in order to generate a report in 2019?  MR. LOCKE: Objection.  THE WITNESS: I don't  understand what you're asking.  BY MR. GOLOMB:  Q. All right. You had a body  of literature. You're put yourself in  January of 2017. Are you with me?  A. I am in 2017 with you, sir.  Q. Okay. You are writing a  report in the Oules case.  A. Yes, sir.  Q. And you've reviewed a body
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	that makes this easier for you.  BY MR. GOLOMB:  Q. And well over 90 percent of what you reviewed for your MDL report was the same stuff that you had reviewed for your 2017 report, and was the same stuff that had been out there since 1972?  MR. LOCKE: Objection.  THE WITNESS: Are you asking me a question?  BY MR. GOLOMB: Q. Isn't that true? A. I read a huge number of expert reports and deposition transcripts because Mr. Locke sent them to me, all dated subsequent. Q. All dated subsequent to	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	in order to generate a report in 2019?  MR. LOCKE: Objection.  THE WITNESS: I don't  understand what you're asking.  BY MR. GOLOMB:  Q. All right. You had a body of literature. You're put yourself in  January of 2017. Are you with me?  A. I am in 2017 with you, sir.  Q. Okay. You are writing a report in the Oules case.  A. Yes, sir.  Q. And you've reviewed a body of literature between 1972 and 2017 in order to write your Oules report, correct?  MR. LOCKE: Objection.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	that makes this easier for you.  BY MR. GOLOMB:  Q. And well over 90 percent of what you reviewed for your MDL report was the same stuff that you had reviewed for your 2017 report, and was the same stuff that had been out there since 1972?  MR. LOCKE: Objection.  THE WITNESS: Are you asking me a question?  BY MR. GOLOMB:  Q. Isn't that true?  A. I read a huge number of expert reports and deposition transcripts because Mr. Locke sent them to me, all dated subsequent.  Q. All dated subsequent to what?  A. To the Oules report.  Q. Okay. So  MR. LOCKE: Excuse me, can I	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	in order to generate a report in 2019?  MR. LOCKE: Objection.  THE WITNESS: I don't  understand what you're asking.  BY MR. GOLOMB:  Q. All right. You had a body  of literature. You're put yourself in  January of 2017. Are you with me?  A. I am in 2017 with you, sir.  Q. Okay. You are writing a  report in the Oules case.  A. Yes, sir.  Q. And you've reviewed a body  of literature between 1972 and 2017 in  order to write your Oules report,  correct?  MR. LOCKE: Objection.  THE WITNESS: Yes.  BY MR. GOLOMB:  Q. Now, forward from January of  2017, at some point you learn that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	that makes this easier for you.  BY MR. GOLOMB:  Q. And well over 90 percent of what you reviewed for your MDL report was the same stuff that you had reviewed for your 2017 report, and was the same stuff that had been out there since 1972?  MR. LOCKE: Objection.  THE WITNESS: Are you asking me a question?  BY MR. GOLOMB:  Q. Isn't that true?  A. I read a huge number of expert reports and deposition transcripts because Mr. Locke sent them to me, all dated subsequent.  Q. All dated subsequent to what?  A. To the Oules report.  Q. Okay. So	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	in order to generate a report in 2019?  MR. LOCKE: Objection.  THE WITNESS: I don't  understand what you're asking.  BY MR. GOLOMB:  Q. All right. You had a body  of literature. You're put yourself in  January of 2017. Are you with me?  A. I am in 2017 with you, sir.  Q. Okay. You are writing a  report in the Oules case.  A. Yes, sir.  Q. And you've reviewed a body  of literature between 1972 and 2017 in  order to write your Oules report,  correct?  MR. LOCKE: Objection.  THE WITNESS: Yes.  BY MR. GOLOMB:  Q. Now, forward from January of

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Jonathan Borak, M.D., DABT

Page 238 Page 240 1 as an expert, much the way that you did 1 perineal talc -- that perineal use of 2 in the Oules case, in the MDL, correct? 2 talc-containing powder caused ovarian 3 3 MR. LOCKE: Objection. cancer. 4 THE WITNESS: Not precisely 4 And so in that context, I 5 in that way, but I understand what 5 reviewed large numbers of papers that 6 you're saying. I'll agree with 6 were potentially relevant to that. In 7 7 addition I looked at papers that you. 8 BY MR. GOLOMB: 8 described risk markers and other 9 9 O. What do you mean not considerations that would have 10 precisely in that way? 10 potentially influenced the interpretation 11 A. In the interim period I was 11 of the earlier papers that I had 12 asked by Mr. Locke to do other things. 12 reviewed. Q. Other things related to 13 13 Occasionally, I had to go 14 talc? 14 back and re-read, for example, to 15 A. Related to talc, but not 15 remember the details. In some cases, so 16 related to the MDL. 16 and so would write something and would 17 Q. Okay. But my question is 17 say something about a paper which I had very simply that if -- you know, we're 18 read earlier. And it would be necessary 18 19 talking about a two-year time period, a 19 for me to go back and re-read the paper. time period where you have extensive --20 20 As a result, for example, I ostensibly extensive notes from the stuff 21 21 suspect that I have read the Terry study, that you read between 1972 and 2017, and 2.2 22 and the Houghton study and the Gates 23 now you're reading stuff now to write a 23 study and the Gertig study and the IARC report in the MDL in 2019, correct? 24 24 report and the Langseth study and all of Page 239 Page 241 those multiple times. 1 MR. LOCKE: Objection. 1 2 THE WITNESS: I am still 2 But I did that because 3 3 confused. Are you asking me perhaps somebody in 2017 or 2018 said 4 whether in 2018 I re-read the 4 something that related to one of those 5 studies, and the details were not clearly 5 stuff that I had written about in 6 6 in my head. 2017? 7 BY MR. GOLOMB: 7 Q. And then at some point in 8 late 2018, early 2019, you sat down to 8 O. Correct. 9 begin to generate your February 25, 2019, 9 A. No. 10 10 Q. You didn't -- you didn't report, correct? 11 11 A. Again, not exactly. I had a re-read it? 12 report that was the Oules report and may 12 A. Well, I may have re-read it, 13 but I wasn't building up large amounts of 13 have been updated for New Jersey. I'm 14 sorry, the chronology of that is not time by re-reading. 14 On a monthly basis, as I 15 clear to me. But whatever. 15 described earlier, I had literature 16 I had at some point a most 16 17 searches done on talc, ovarian cancer, 17 recent final report. Okay. And as I 18 talc and cancer, and I read anywhere 18 continued to read, I would add or change 19 that earlier report, so that my writing between 20 and 40 or more articles per 19 of a report was in a large sense an 20 month to try to make sure that I was 20 21 current in terms of fulfilling the task 21 ongoing process over a period of years, because every month it was possible that 22 that I was asked to do, which was to 22 23 somebody was going to update something or 23 repeat -- to evaluate whether, when, and 24 by whom it had been determined that 24 add something new.

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	Page 242	1	Page 244
1	In addition to which, as you	1	and I'll answer.
2	are already aware, my report also speaks	2	
3	about certain websites which I looked at	3	Q. And I'm going to give you crystal clear clarity
3 4			•
	with a periodic frequency to know when	4	A. Dynamite.
5	those were changed. And when they	5	Q if I don't, just put up
6	changed, I changed my report.	6	your hand or, you know, do something and
7	Q. And one of the websites that	7	let me know that it's not clear to you.
8	you referred to in the background of your	8	A. Thank you.
9	report, under Paragraph Number 12, is the	9	Q. Okay. Did you review any
10	NCI website, correct?	10	NCI website other than the one from
11	MR. LOCKE: Objection.	11	12/21/18 that's referred to in your
12	THE WITNESS: Paragraph	12	report?
13	Number 12?	13	A. And to answer that, I asked
14	BY MR. GOLOMB:	14	you to give me from my report the list of
15	Q. Paragraph Number 12 on Page	15	the websites that I've cited.
16	3.	16	The answer is yes, but to
17	A. Yes that's an example of	17	give you details, I need to look at the
18	updating it.	18	component of my report that summarized
19	Q. Okay. Well, that was 2014.	19	what was published on various websites.
20	That predated both your reports, right?	20	Q. And where would it be in
21	MR. LOCKE: Objection.	21	your report?
22	THE WITNESS: The end of	22	A. It would have been appendix
23	that paragraph, which you were	23	or exhibit, however I referred to it
24	just reading says, "Very recently,	24	Number 2 was materials considered.
21	just reading says, very recently,		rumber 2 was materials considered.
	Page 243		Page 245
1	in a statement dated 12/21/18."	1	Q. Yeah.
2	BY MR. GOLOMB:	2	A. Number 3 was chronology. It
3	Q. Okay. And had you reviewed	3	may have been in the chronology or there
4	the website before 12/21/18?	4	may have been a separate section that had
5	A. Yes. But not that version	5	the websites.
6	of the website.	6	Q. All right. Let let's
7	Q. That wasn't my question. My	7	talk about your attachments for a second.
8	question was, had you had you reviewed	8	We'll come back to Paragraph 12 of your
9	the NCI website between the date that you	9	report.
10	use here in 2014 and December 21st, 2018?	10	MR. GOLOMB: Can I have
11	MR. HEGARTY: Objection.	11	Exhibit 8, please.
12	THE WITNESS: Forgive me.	12	(Document marked for
13	•	13	identification as Exhibit
т Э	2014 pertains to an editorial	1 13	identification as Exhibit
	2014 pertains to an editorial published in the Journal of the	1	
14	published in the Journal of the	14	Borak-8.)
14 15	published in the Journal of the National Cancer Institute. It has	14 15	Borak-8.) BY MR. GOLOMB:
14 15 16	published in the Journal of the National Cancer Institute. It has nothing to do with the website.	14 15 16	Borak-8.) BY MR. GOLOMB: Q. So this is your reference
14 15 16 17	published in the Journal of the National Cancer Institute. It has nothing to do with the website. So re-ask your question, please.	14 15 16 17	Borak-8.) BY MR. GOLOMB: Q. So this is your reference list, correct?
14 15 16 17 18	published in the Journal of the National Cancer Institute. It has nothing to do with the website. So re-ask your question, please. BY MR. GOLOMB:	14 15 16 17 18	Borak-8.) BY MR. GOLOMB: Q. So this is your reference list, correct? A. Yes, that's my reference
14 15 16 17 18	published in the Journal of the National Cancer Institute. It has nothing to do with the website. So re-ask your question, please. BY MR. GOLOMB: Q. My question is a very	14 15 16 17 18 19	Borak-8.) BY MR. GOLOMB: Q. So this is your reference list, correct? A. Yes, that's my reference list.
14 15 16 17 18 19 20	published in the Journal of the National Cancer Institute. It has nothing to do with the website. So re-ask your question, please. BY MR. GOLOMB: Q. My question is a very I'll make it as simple	14 15 16 17 18 19 20	Borak-8.) BY MR. GOLOMB: Q. So this is your reference list, correct? A. Yes, that's my reference list. MR. LOCKE: With some marks
14 15 16 17 18 19 20 21	published in the Journal of the National Cancer Institute. It has nothing to do with the website. So re-ask your question, please. BY MR. GOLOMB: Q. My question is a very I'll make it as simple A. It's not simple	14 15 16 17 18 19 20 21	Borak-8.) BY MR. GOLOMB: Q. So this is your reference list, correct? A. Yes, that's my reference list. MR. LOCKE: With some marks on it.
14 15 16 17 18 19 20 21	published in the Journal of the National Cancer Institute. It has nothing to do with the website. So re-ask your question, please. BY MR. GOLOMB: Q. My question is a very I'll make it as simple A. It's not simple Q as possible?	14 15 16 17 18 19 20 21 22	Borak-8.) BY MR. GOLOMB: Q. So this is your reference list, correct? A. Yes, that's my reference list. MR. LOCKE: With some marks on it. THE WITNESS: With some
14 15 16 17 18 19 20 21 22 23	published in the Journal of the National Cancer Institute. It has nothing to do with the website. So re-ask your question, please. BY MR. GOLOMB: Q. My question is a very I'll make it as simple A. It's not simple Q as possible? A because you've miscited	14 15 16 17 18 19 20 21 22 23	Borak-8.) BY MR. GOLOMB: Q. So this is your reference list, correct? A. Yes, that's my reference list. MR. LOCKE: With some marks on it. THE WITNESS: With some marks on it.
14 15 16 17 18 19 20 21	published in the Journal of the National Cancer Institute. It has nothing to do with the website. So re-ask your question, please. BY MR. GOLOMB: Q. My question is a very I'll make it as simple A. It's not simple Q as possible?	14 15 16 17 18 19 20 21 22	Borak-8.) BY MR. GOLOMB: Q. So this is your reference list, correct? A. Yes, that's my reference list. MR. LOCKE: With some marks on it. THE WITNESS: With some

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	Page 246		Page 248
1	Q. And your reference list	1	13-page report.
2	begins, if you look at the lower	2	A. These are the references I
3	right-hand corner, of on Page 14 of	3	specifically cited in the body of my
4	your report, correct?	4	report.
5	A. Yes.	5	Q. Right. And did you cite to
6	Q. So to be clear, Pages 1	6	any other NCI website other than the one
7	through 13 are the body of your report	7	dated 12/21/18?
8	that includes your conclusions, correct?	8	A. If you would give me the
9	A. Yes.	9	list of the websites which I specified
10	Q. And so the first page after	10	Q. My my question is is
11	the body of your report in the signature	11	simply, in the body of your report, did
12	line is this reference list, correct?	12	you refer to any other NCI website other
13	A. Yes.	13	than the 2000 12/21/18 website?
14	Q. And if I understand this	14	You've got you've got
15	reference list correctly, as you go	15	Exhibit 7, the report, and Exhibit 8, the
16	through the body of your report, you	16	reference list.
17	identify by number, 1 through 50, this	17	A. I appreciate what you're
18	the references that are Number 1 through	18	saying, and I'm looking for something
19	50 on this reference list?	19	which I think will clarify, if I may.
20	A. Correct.	20	There was an attachment
21	Q. Okay. And so, if we look,	21	which included the text which I had
22	for as an example, if we look at	22	copied. That was my cut and paste. I
23	Page 3, Paragraph 12 of your report, the	23	copied from those websites the full text
24	second paragraph of Page 12 that begins	24	that was listed. And it was an
21	second paragraph of rage 12 that begins	2.1	that was listed. And it was an
	Page 247		Page 249
1	with the word despite?	1	attachment. But of course it's not
2	A. Yes.	2	attached to this, which you've given me,
3	Q. The last sentence says,	3	which is only 13 pages. And such an
4	"Very recently in a statement dated	4	attachment was also included with the
5	12/21/18, the National Cancer Institute	5	Oules report.
6	concluded 'the weight of evidence does	6	Q. My my question was very
7	not support an association between	7	simply, did you refer to any other any
8	perineal talc exposure and an increased	8	other NCI website other than the 12/21/18
9	risk of ovarian cancer."	9	NCI website in the body of your 13-page
10	And there's a Number 3,	10	report.
11	correct?	11	A. In the body of the report I
12	A. Yes, that's correct.	12	think I referred to a compilation of
13	Q. So hopefully if if this	13	website statements, but did not mention
14	is accurate, if you look at Number 3 on	14	the NCI by name.
15	your reference list, that will refer to	15	Q. Let let me define I
16	the National Cancer Institute website	16	apologize. I wasn't clear enough for
17	dated 2018 and it does	17	you. So let me define what I mean by
18	A. Yes, that's correct.	18	body of the report. Okay?
19	Q right?	19	A. Sure.
20	A. Yes.	20	Q. Do you see Page 1 of the
21	Q. All right. Now, on in	21	report?
22	this reference list is the exclusive list	22	A. Yes.
23		23	Q. Do you see your signature on
24	that you referred to in the body of your	24	Page 13 of the report?
23	of of journals, websites, et cetera,	23	Q. Do you see your signature or

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	Page 250		Page 252
1	A. Yes, sir.	1	Q. Okay. And you know that
2	Q. Those two pages and	2	do you know that ones that predate
3	everything in between is what I'm	3	December 21, 2018, identify perineal use
4	referring to as the body of the report.	4	of talc as a risk of ovarian cancer?
5	Do you understand that?	5	MR. LOCKE: Objection.
6	A. I hear you now.	6	THE WITNESS: I don't
7	Q. Okay. Now, with that as a	7	remember that to be so.
8	background, is there anything in the body	8	BY MR. GOLOMB:
9	of the report that refers to the NCI	9	Q. Okay. You you've said,
10	website other than that reference to	10	correct me if I'm wrong, did you
11	December 21, 2018?	11	review you reviewed some prior trial
12	A. It does not name the NCI	12	testimony in this case?
13	website anywhere else. It refers	13	A. Which case?
14	indirectly in Paragraph 44 where it says,	14	Q. You know that
15	"Following the statements from some of	15	A. There hasn't been a trial as
16	those websites listed in chronological	16	I understand it.
17	order, the complete statements are	17	Q. You know that no MDL cases
18	presented in Attachment 4." And I	18	have been tried yet, correct?
19	believe that I've got NCI 2018, 2019. I	19	A. There have been depositions.
20	don't know whether I have an earlier NCI	20	Q. Do you know the difference
21	statement on that Attachment 4.	21	between a trial and deposition?
22	Q. Okay. So, for the record,	22	A. I believe I do, sir.
23	you're referring to Page 12 of your	23	Q. Okay. Trials for ease of
24	report, correct?	24	reference, trials are things that take
	report, correct.		reference, trials are tilings that take
	Page 251		Page 253
1	A. That's correct.	1	place in in a courtroom in front of a
2	Q. And about three-quarters of	2	jury?
3	the way down on Paragraph 44, it refers	3	A. Thank you. I appreciate
4	to the National Cancer Institute 2018	4	that explanation.
5	A. Yes.	5	Q. Depositions are something
6	Q correct?	6	that take place like in a conference room
7	And that's your reference	7	with just lawyers like here today?
8	Number 46?	8	A. There are nonlawyers here
9	A. Yes.	9	also.
10	Q. And then if you go to	10	Q. All right. And so you are
11	Page 17, which includes the reference of	11	aware that there have been no actual
12	Number 46, that's 2018, right, it doesn't	12	trials in the MDL yet?
13	say anything about 2019?	13	A. That is my understanding.
14	A. If you look at reference	14	Q. Okay. And so the the
15	Number 49	15	trials that have taken place have been
	Q. Yeah.	16	like in state court in St. Louis, state
16		1 1 1	
17	A it refers to the National	17	court in Los Angeles, are you aware of
17 18	A it refers to the National Cancer Institute website. And it's 2019.	18	that?
17 18 19	Cancer Institute website. And it's 2019. Q. Okay.	18 19	that? MR. HEGARTY: Objection.
17 18	Cancer Institute website. And it's 2019.	18	that?
17 18 19	Cancer Institute website. And it's 2019. Q. Okay.	18 19	that? MR. HEGARTY: Objection.
17 18 19 20	Cancer Institute website. And it's 2019. Q. Okay. A. But you're asking me about	18 19 20	that?  MR. HEGARTY: Objection.  THE WITNESS: I am aware of
17 18 19 20 21	Cancer Institute website. And it's 2019. Q. Okay. A. But you're asking me about older ones. And I'm saying that I only	18 19 20 21	that?  MR. HEGARTY: Objection.  THE WITNESS: I am aware of the fact that there have been

64 (Pages 250 to 253)

		1	
	Page 254		Page 256
1	BY MR. GOLOMB:	1	BY MR. GOLOMB:
2	Q. Okay. And you and	2	Q. Well, you're you're
3	we'll we'll and you've actually	3	now you're familiar with the NCI
4	referred to some of the the trial	4	website?
5	testimony and, in fact, trial results	5	A. Yes.
6	in throughout your your report, do	6	Q. Okay. And you know what a
7	you recall that?	7	PDQ is?
8	A. I'm surprised that I	8	A. Yes.
9	referred to the trial results. Tell me	9	Q. What's a PDQ?
10	what you mean. I may have.	10	A. It's a document which NCI
11	Q. Well, if you if you don't	11	prepares, I think probably for both
12	recall that, then just tell me you don't	12	physicians and for patients. But they
13	recall that. We'll we'll go through	13	are kind of Q&As.
14	it.	14	*
15		15	Q. Okay. And, in fact,
	A. Please. I don't recall	16	there there has been testimony in the
16	that. I	1	case that it's not for patients, it's for
17	Q. Do you recall reading	17	physicians, it's for scientists
18	referencing the Ritsesund case and and	18	A. That may well be.
19	referring to some of the testimony in the	19	Q who have a logon to get
20	Ritsesund case?	20	onto the PDQ.
21	MR. HEGARTY: Objection.	21	A. I'm sorry?
22	THE WITNESS: I may very	22	MR. HEGARTY: Objection.
23	well. I'd have to look and see.	23	MR. LOCKE: Objection.
24	I don't remember.	24	BY MR. GOLOMB:
	Page 255		Page 257
1	BY MR. GOLOMB:	1	Q. Who have a login to get onto
2	Q. Okay. Does that name sound	2	the PDQ?
3	familiar to you?	3	A. I don't recognize that, but
4	A. It sounds like something I	4	it might be true.
5	have a file on, but I don't remember the	5	Q. Okay. There there also
6	details.	6	are things that are known as snapshots on
7	Q. Okay. Let let me	7	the NCI website. Are you familiar with
8	MR. GOLOMB: Can we turn on	8	that?
9	the Elmo.	9	MR. HEGARTY: Objection.
10	BY MR. GOLOMB:	10	THE WITNESS: Not by name.
11	Q. I've marked an Exhibit 31	11	BY MR. GOLOMB:
12	which was previously marked as a trial	12	Q. Okay. And so were you aware
13	exhibit as Plaintiffs' Exhibit	13	that in in 2014 that on the
14	Number 607.	14	physician's data query, the PDQ, that the
15	Let me show it to you and	15	NCI actually did list talc as a risk of
16	then I'll put it up on the Elmo. It's a	16	ovarian cancer?
17	seven-page exhibit, and ask you if you've	17	MR. HEGARTY: Objection.
18	ever seen that before.	18	MR. LOCKE: Objection.
19	(Document marked for	19	THE WITNESS: I don't think
20	identification as Exhibit	20	I was aware of that.
21		21	BY MR. GOLOMB:
22	Borak-31.)	21 22	
	THE WITNESS: I don't think	22	Q. Were you aware in 2015 that
23	I recognize it. I don't think	<sub> </sub> 45	the PDQ identified talc as a risk of
2/		24	
24	I've ever seen it.	24	ovarian cancer?

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Jonathan Borak, M.D., DABT

	Page 258		Page 260
1		1	BY MR. GOLOMB:
1	MR. HEGARTY: Objection.	1 2	
2	MR. LOCKE: Objection.		Q. Are you with me so far?
3	THE WITNESS: I'm surprised	3	A. I hear what you've said in
4	by that.	4	this hypothetical, yes.
5	BY MR. GOLOMB:	5	Q. Okay. And I and I click
6	Q. Were you aware in 2017 that	6	on that first result that says "Snapshot
7	talc was listed as perineal use of	7	of Ovarian Cancer." And and in the
8	talc was listed as a as a risk of	8	third paragraph of the "Snapshot of
9	cancer, of ovarian cancer?	9	Ovarian Cancer," it identifies risks of
10	MR. HEGARTY: Objection.	10	ovarian cancer. And one of the risks of
11	MR. LOCKE: Objection.	11	ovarian cancer is talc.
12	THE WITNESS: I don't recall	12	A. Really?
13	that.	13	MR. HEGARTY: Objection.
14	BY MR. GOLOMB:	14	MR. LOCKE: Objection.
15	Q. Okay. And so you you	15	BY MR. GOLOMB:
16	you don't you said you you haven't	16	Q. And that was on on the
17	heard the term "the snapshot," from the	17	NCI website up until the point when
18	NCI website?	18	trials began in this particular
19	A. I I know the expression	19	litigation. Were you aware of that?
20	snapshot, but not in the context as you	20	MR. HEGARTY: Objection.
21	just used it.	21	MR. LOCKE: Objection.
22	Q. Okay. Let me let me ask	22	THE WITNESS: Of course not.
23	you a hypothetical question and see if it	23	BY MR. GOLOMB:
24	at all refreshes your recollection.	24	Q. Okay. So you wouldn't know
21	at all felleslies your reconection.	24	Q. Okay. 30 you wouldn't know
	Page 259		Page 261
1	A. Hypothetical question.	1	of any communications that may or may not
2	Q. Hypothetical question.	2	have existed between the defendants in
3	The hypothetical begins	3	this case and the NCI in an effort to get
4	with: I'm a woman.	4	that off the website?
5	A. Okay.	5	MR. HEGARTY: Objection.
6	Q. And I am a woman that goes	6	MR. LOCKE: Objection.
7	on the NCI website, and has a fear that I	7	THE WITNESS: I'm astonished
8	may have ovarian cancer.	8	by the possibility.
9	And I go on the NCI website	9	BY MR. GOLOMB:
10	to make a determination as to what are	10	Q. But you didn't know that
11	the risks of ovarian cancer. And I go	11	that was included in the snapshot, right?
12	onto the homepage of the NCI website.	12	MR. LOCKE: Objection.
13	And on the upper right-hand corner, where	13	MR. HEGARTY: Objection.
14	I can search, I type in the words ovarian	14	THE WITNESS: I wasn't aware
15	cancer.	15	of the snapshot.
16	And and when I hit	16	BY MR. GOLOMB:
17	search, up on the on the search	17	Q. And you weren't aware that
18	results, on the very first search result	18	it was included in the in the PDQ?
19	is is an article called "Snapshot of	19	MR. LOCKE: Objection.
20	Ovarian Cancer."	20	· · · · · · · · · · · · · · · · · · ·
		20	MR. HEGARTY: Objection.
21	Are you with me?		THE WITNESS: No.
22	MR. HEGARTY: Objection.	22	BY MR. GOLOMB:
23	MR. LOCKE: Objection as	23	Q. Let's go back to Page 3 of
0.4	11	2.4	Trong man ant A atria 11-1 1-41 are The
24	well.	24	your report. Actually let's go I'm

66 (Pages 258 to 261)

	Page 262		Page 264
1	sorry, let's go to Page 4.	1	THE WITNESS: I I don't
2	Okay. Now, this is	2	think that's correct, but I can
3	Paragraph 13 and 14 continue in the	3	look. I would be surprised.
4	background of your report, correct?	4	BY MR. GOLOMB:
5	A. I'm sorry?	5	Q. Okay.
6	Q. Paragraph 13 and 14 on	6	A. Oh, I think they referred
7	Page 4 of your report continue with the	7	let me look for a second. When I was
8	background section of your report?	8	quoting from a deposition, I would have
9	A. Oh, yeah, yeah, yeah, fine.	9	put for example, if you look at
10	It's part of the section that I labeled	10	Paragraph 20 of my report.
11	as background, yes, that's correct.	11	BY MR. GOLOMB:
12	Q. Okay. And Paragraph 13, you	12	Q. Right.
13	say, "Nevertheless, many of plaintiff MDL	13	A. It speaks of deposition
14	experts have opined that perineal use of	14	transcript of deposition testimony.
15	talc containing powder can cause ovarian	15	And it says, Deposition Re: Blaes, Page
16	cancer."	16	X, Y, Z. Dr. Colditz said something or
17	Did I read read that	17	other "(Deposition Re: Hogans, Page
18	correctly?	18	436)." And then later on it says,
19	A. You did.	19	"Deposition Re: Blaes, 150, 151."
20		20	That's simply to indicate,
21	Q. All right. And you then on	21	yes, I cited and I believe that those are
22	Paragraph 14 refer to a chronology of	22	all on this list. But I did not put them
	opinions, correct?	23	into my numbered reference list, into the
23	A. Yes.	24	
24	Q. All right. So let's, first	24	paragraph.
	Page 263		Page 265
			<b>-</b>
1	of all, go through some of the	1	MR. LOCKE: For the record,
1 2	of all, go through some of the attachments to your report. Let's look	1 2	MR. LOCKE: For the record,
			MR. LOCKE: For the record, you're referring to Attachment 1
2	attachments to your report. Let's look	2	MR. LOCKE: For the record, you're referring to Attachment 1 when you say "this list."
2	attachments to your report. Let's look at Exhibit 10.	2 3	MR. LOCKE: For the record, you're referring to Attachment 1 when you say "this list."  THE WITNESS: I'm sorry.
2 3 4	attachments to your report. Let's look at Exhibit 10.  (Document marked for	2 3 4	MR. LOCKE: For the record, you're referring to Attachment 1 when you say "this list."
2 3 4 5	attachments to your report. Let's look at Exhibit 10.  (Document marked for identification as Exhibit	2 3 4 5	MR. LOCKE: For the record, you're referring to Attachment 1 when you say "this list."  THE WITNESS: I'm sorry. Yes, that's correct. I'm being
2 3 4 5 6	attachments to your report. Let's look at Exhibit 10.  (Document marked for identification as Exhibit Borak-10.)  MR. GOLOMB: Mark, I	2 3 4 5 6	MR. LOCKE: For the record, you're referring to Attachment 1 when you say "this list."  THE WITNESS: I'm sorry. Yes, that's correct. I'm being unclear.
2 3 4 5 6 7	attachments to your report. Let's look at Exhibit 10.  (Document marked for identification as Exhibit Borak-10.)	2 3 4 5 6 7	MR. LOCKE: For the record, you're referring to Attachment 1 when you say "this list."  THE WITNESS: I'm sorry. Yes, that's correct. I'm being unclear.  You've given me a list from my report. The list is of expert reports, testimony, and other
2 3 4 5 6 7 8	attachments to your report. Let's look at Exhibit 10.  (Document marked for identification as Exhibit Borak-10.)  MR. GOLOMB: Mark, I apologize for not having copies of	2 3 4 5 6 7 8	MR. LOCKE: For the record, you're referring to Attachment 1 when you say "this list."  THE WITNESS: I'm sorry. Yes, that's correct. I'm being unclear.  You've given me a list from my report. The list is of expert
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2 3 4 5 6 7 8 9 10	attachments to your report. Let's look at Exhibit 10.  (Document marked for identification as Exhibit Borak-10.)  MR. GOLOMB: Mark, I apologize for not having copies of these. I thought I did.  BY MR. GOLOMB:  Q. Attachment 1 is "Expert	2 3 4 5 6 7 8 9 10	MR. LOCKE: For the record, you're referring to Attachment 1 when you say "this list."  THE WITNESS: I'm sorry. Yes, that's correct. I'm being unclear.  You've given me a list from my report. The list is of expert reports, testimony, and other related materials that I reviewed.  You asked me whether I had
2 3 4 5 6 7 8 9 10 11 12	attachments to your report. Let's look at Exhibit 10.  (Document marked for identification as Exhibit Borak-10.)  MR. GOLOMB: Mark, I apologize for not having copies of these. I thought I did.  BY MR. GOLOMB:  Q. Attachment 1 is "Expert Reports, Testimony and Other Related	2 3 4 5 6 7 8 9 10 11 12	MR. LOCKE: For the record, you're referring to Attachment 1 when you say "this list."  THE WITNESS: I'm sorry. Yes, that's correct. I'm being unclear.  You've given me a list from my report. The list is of expert reports, testimony, and other related materials that I reviewed.  You asked me whether I had referenced any of these in my
2 3 4 5 6 7 8 9 10 11 12 13	attachments to your report. Let's look at Exhibit 10.  (Document marked for identification as Exhibit Borak-10.)  MR. GOLOMB: Mark, I apologize for not having copies of these. I thought I did.  BY MR. GOLOMB:  Q. Attachment 1 is "Expert Reports, Testimony and Other Related Materials," correct?	2 3 4 5 6 7 8 9 10 11 12 13	MR. LOCKE: For the record, you're referring to Attachment 1 when you say "this list."  THE WITNESS: I'm sorry. Yes, that's correct. I'm being unclear.  You've given me a list from my report. The list is of expert reports, testimony, and other related materials that I reviewed.  You asked me whether I had referenced any of these in my report.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	attachments to your report. Let's look at Exhibit 10.  (Document marked for identification as Exhibit Borak-10.)  MR. GOLOMB: Mark, I apologize for not having copies of these. I thought I did.  BY MR. GOLOMB:  Q. Attachment 1 is "Expert Reports, Testimony and Other Related Materials," correct?  A. Correct, that's the title.  Q. Now, if I if I understand this correctly, and correct me if I'm wrong, first of all, none of the on the two-and-a-half-page list that comes under this exhibit, none of none of these documents, and I use that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MR. LOCKE: For the record, you're referring to Attachment 1 when you say "this list."  THE WITNESS: I'm sorry. Yes, that's correct. I'm being unclear.  You've given me a list from my report. The list is of expert reports, testimony, and other related materials that I reviewed.  You asked me whether I had referenced any of these in my report.  The answer was yes. I didn't put them in the numbered reference list at the back of the report. I embedded into the paragraph where I cited it, the deposition and the page.  BY MR. GOLOMB:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	attachments to your report. Let's look at Exhibit 10.  (Document marked for identification as Exhibit Borak-10.)  MR. GOLOMB: Mark, I apologize for not having copies of these. I thought I did.  BY MR. GOLOMB:  Q. Attachment 1 is "Expert Reports, Testimony and Other Related Materials," correct?  A. Correct, that's the title.  Q. Now, if I if I understand this correctly, and correct me if I'm wrong, first of all, none of the on the on the two-and-a-half-page list that comes under this exhibit, none of none of these documents, and I use that term loosely, but none of these documents	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. LOCKE: For the record, you're referring to Attachment 1 when you say "this list."  THE WITNESS: I'm sorry. Yes, that's correct. I'm being unclear.  You've given me a list from my report. The list is of expert reports, testimony, and other related materials that I reviewed.  You asked me whether I had referenced any of these in my report.  The answer was yes. I didn't put them in the numbered reference list at the back of the report. I embedded into the paragraph where I cited it, the deposition and the page.  BY MR. GOLOMB:  Q. And that's Paragraph 20 of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	attachments to your report. Let's look at Exhibit 10.  (Document marked for identification as Exhibit Borak-10.)  MR. GOLOMB: Mark, I apologize for not having copies of these. I thought I did.  BY MR. GOLOMB:  Q. Attachment 1 is "Expert Reports, Testimony and Other Related Materials," correct?  A. Correct, that's the title.  Q. Now, if I if I understand this correctly, and correct me if I'm wrong, first of all, none of the on the on the two-and-a-half-page list that comes under this exhibit, none of none of these documents, and I use that term loosely, but none of these documents are referred to specifically in your	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. LOCKE: For the record, you're referring to Attachment 1 when you say "this list."  THE WITNESS: I'm sorry. Yes, that's correct. I'm being unclear.  You've given me a list from my report. The list is of expert reports, testimony, and other related materials that I reviewed.  You asked me whether I had referenced any of these in my report.  The answer was yes. I didn't put them in the numbered reference list at the back of the report. I embedded into the paragraph where I cited it, the deposition and the page.  BY MR. GOLOMB:  Q. And that's Paragraph 20 of your report?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	attachments to your report. Let's look at Exhibit 10.  (Document marked for identification as Exhibit Borak-10.)  MR. GOLOMB: Mark, I apologize for not having copies of these. I thought I did.  BY MR. GOLOMB:  Q. Attachment 1 is "Expert Reports, Testimony and Other Related Materials," correct?  A. Correct, that's the title.  Q. Now, if I if I understand this correctly, and correct me if I'm wrong, first of all, none of the on the on the two-and-a-half-page list that comes under this exhibit, none of none of these documents, and I use that term loosely, but none of these documents	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MR. LOCKE: For the record, you're referring to Attachment 1 when you say "this list."  THE WITNESS: I'm sorry. Yes, that's correct. I'm being unclear.  You've given me a list from my report. The list is of expert reports, testimony, and other related materials that I reviewed.  You asked me whether I had referenced any of these in my report.  The answer was yes. I didn't put them in the numbered reference list at the back of the report. I embedded into the paragraph where I cited it, the deposition and the page.  BY MR. GOLOMB:  Q. And that's Paragraph 20 of

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Jonathan Borak, M.D., DABT

	Page 266		Page 268
1	Q. Okay. Where else in your	1	my list, because I thought you might
2	report, do you refer to a portion of the	2	one day I would see you again after many
3	deposition? I see Paragraph 28. I'll	3	years, and you would ask me what did I
4	help you out.	4	read. And I would tell you.
5	MR. LOCKE: And 24.	5	Q. All right. And did you
6	THE WITNESS: It's been done	6	refer to that Rothman article in the body
7	multiple times. I'm just trying	7	of your report?
8	to differentiate between the way	8	A. I don't believe so, but I'd
9	in which I referenced a deposition	9	have to go look. But I doubt it.
10	or a testimony and the way that I	10	Q. Okay. And, you know, since
11	referenced a published article.	11	Dr. Rothman is a is, as you mentioned
12	It means nothing more than	12	earlier, a friend of yours, you know that
13	that. I'm just trying to say yes,	13	in addition to this unpublished report,
14	I did reference and did point to	14	that he has written dozens and dozens of
15	some of those that were on that	15	published peer-reviewed articles directly
16	list. That's the whole purpose of	16	related to epidemiology, correct?
17	that comment.	17	MR. HEGARTY: Objection.
18	BY MR. GOLOMB:	18	MR. LOCKE: Objection.
19	Q. Okay. So if I understand	19	THE WITNESS: He is a very
20	Attachment 1, Exhibit 10 correctly, this	20	well-published man. I told you
21	is these are not pulled from published	21	before, I know him, I like him.
22	articles or journals. This is all	22	Exchanged literature. And I have
23	litigation related?	23	several of his books on my shelf.
24	A. Yes. That's pretty much.	24	BY MR. GOLOMB:
	Page 267		Page 269
1			
1	Under the "other," there is	1	Q. Okay. And one of those
2	a notation of websites that I looked at.	2	books is I asked you about your
2	a notation of websites that I looked at. There is a notation of an unpublished		books is I asked you about your A. Yes, yes. You're going over
2 3 4	a notation of websites that I looked at. There is a notation of an unpublished report by Rothman and Pastides. The rest	2 3 4	books is I asked you about your A. Yes, yes. You're going over old stuff. But you can ask me again
2 3 4 5	a notation of websites that I looked at. There is a notation of an unpublished report by Rothman and Pastides. The rest of it was all litigation, I think.	2 3 4 5	books is I asked you about your A. Yes, yes. You're going over old stuff. But you can ask me again because I like Rothman. I don't mind.
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	Page 270		Page 272
1	said I have reviewed the	1	whom it had been determined that
2	following. I meant, and perhaps I	1 2 3 4 5 6	perineal use of talc-containing
3	failed to say, that it was	3	powder causes ovarian cancer.
4	specific to this question that was	4	I was not asked to review
5	raised.	5	the literature on weight of
6	BY MR. GOLOMB:	6	evidence.
7	Q. Yeah, but my question is a	7	BY MR. GOLOMB:
8	little bit different. Knowing that	8	Q. Okay. And so, at least as
9	Dr. Rothman literally wrote the book on	9	it relates to your role in this
10	modern epidemiology, and having the book	10	litigation, the weight of the evidence or
11	itself, and knowing that he has written	11	the hierarchy of the evidence was not a
12	versions of this book since 2000, and	12	relevant question?
13	knowing that he's written dozens and	13	MR. LOCKE: Objection.
14	dozens of articles since 2000	14	THE WITNESS: It was not a
15	specifically on epidemiology, why is it	15	question that I was asked to opine
16	that, whether it was you or your	16	upon.
17	librarian, didn't get those other	17	BY MR. GOLOMB:
18	articles from Dr. Rothman, read those	18	Q. Which made it irrelevant?
19	books and so that you could refer to	19	MR. LOCKE: Objection.
20	those in your report?	20	BY MR. GOLOMB:
21	MR. LOCKE: Objection. I	21	Q. Correct?
22	think this is an	22	A. I wouldn't have used that
23	apples-and-oranges type of	23	word. It's an interesting question under
24	comparison. You also have his	24	any circumstance, but it's not part of
	Page 271		Page 273
1	attachment with materials	1	what I was asked to do.
2	considered. Rothman may or may	2	Q. Okay. So you then,
3	not be on that. But well,		
		3	beginning on Page 4, you begin your
4	that's my objection.	4	discussion, under your subheading of
5	that's my objection.  THE WITNESS: I don't	4 5	discussion, under your subheading of discussion, correct?
5 6	that's my objection.  THE WITNESS: I don't believe that Ken Rothman has	4 5 6	discussion, under your subheading of discussion, correct?  A. Yes. My section titled
5 6 7	that's my objection.  THE WITNESS: I don't believe that Ken Rothman has written about the link between	4 5 6 7	discussion, under your subheading of discussion, correct?  A. Yes. My section titled discussion begins on Page 4.
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	Page 274		Page 276
1	one published by 2004. I did not	1	looked at the association between talc
2	break it down structurally before	2	and ovarian cancer. Do you recognize the
3	that.	3	names on that list?
4	BY MR. GOLOMB:	4	A. Yes.
5	Q. Okay. And and 14 of	5	MR. HEGARTY: Objection.
6	those studies took place before 2000?	6	THE WITNESS: Sorry.
7	MR. LOCKE: Objection.	7	BY MR. GOLOMB:
8	THE WITNESS: I I accept	8	Q. And there were 27 separate
9	your statement. I don't know that	9	studies that showed an increased risk
10	that's actually true.	10	somewhere between 1.17 and 2.49.
11	BY MR. GOLOMB:	11	Do you see that?
12	Q. Okay. Well, let let me	12	MR. HEGARTY: Objection.
13	show you an exhibit we've prepared for	13	MR. LOCKE: Objection.
14	and we'll mark the exhibit, Exhibit 9.	14	THE WITNESS: I see the
15	(Document marked for	15	numbers that you're referring to.
16	identification as Exhibit	16	Yes.
17	Borak-9.)	17	BY MR. GOLOMB:
18	BY MR. GOLOMB:	18	Q. Okay. And these are all
19	Q. You had mentioned earlier in	19	studies that you looked at as part of
20	your testimony that there were something	20	your research into coming to your
21	like 25 separate case-control studies.	21	conclusions, right?
22	Do do you remember?	22	A. Yes.
23	A. More than that, but yes.	23	Q. And we and we know that
24	Q. Okay. And if we look at	24	because if you look at the exhibit,
	Daga 275		
	Page 275		Page 277
1	Exhibit 9 there, between 1982 and 2018,	1	you'll see under the first the the
2		1 2	
2 3	Exhibit 9 there, between 1982 and 2018,		you'll see under the first the the
2	Exhibit 9 there, between 1982 and 2018, there were actually 27. So there were	2	you'll see under the first the the first column well, the third column, do you see where it says reference list?  A. Yes.
2 3	Exhibit 9 there, between 1982 and 2018, there were actually 27. So there were there were 27 separate studies that	2 3	you'll see under the first the the first column well, the third column, do you see where it says reference list?
2 3 4	Exhibit 9 there, between 1982 and 2018, there were actually 27. So there were there were 27 separate studies that showed a statistical significant	2 3 4	you'll see under the first the the first column well, the third column, do you see where it says reference list?  A. Yes.  Q. All right. And you see, as an example, the X next to Penninkilampi?
2 3 4 5	Exhibit 9 there, between 1982 and 2018, there were actually 27. So there were there were 27 separate studies that showed a statistical significant increased risk of ovarian cancer from the	2 3 4 5 6 7	you'll see under the first the the first column well, the third column, do you see where it says reference list?  A. Yes.  Q. All right. And you see, as
2 3 4 5 6	Exhibit 9 there, between 1982 and 2018, there were actually 27. So there were there were 27 separate studies that showed a statistical significant increased risk of ovarian cancer from the perineal use of talc.	2 3 4 5 6	you'll see under the first the the first column well, the third column, do you see where it says reference list?  A. Yes.  Q. All right. And you see, as an example, the X next to Penninkilampi?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Exhibit 9 there, between 1982 and 2018, there were actually 27. So there were there were 27 separate studies that showed a statistical significant increased risk of ovarian cancer from the perineal use of talc.  MR. LOCKE: Objection.  MR. HEGARTY: Objection.  THE WITNESS: Can you step back and ask the question? I see a group of studies. You were talking about something repeat your question. I'm unclear.  What I see here is a large group of of studies, but they are grouped by type. I thought you were asking something about type.  BY MR. GOLOMB:  Q. My my question you have Exhibit 9 in front of you.  A. I do.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	you'll see under the first the the first column well, the third column, do you see where it says reference list?  A. Yes. Q. All right. And you see, as an example, the X next to Penninkilampi? A. If that's how it's pronounced. Q. Do you see that? A. Yes. Q. Okay. And the X the X means that that that is a study that you referred to A. Yes. Q by name and by number, in the body of your report. A. Yeah. Shall I read what I said about it? Q. No. A. Oh, okay. Q. We're just trying I'm trying to get the background.

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	Page 278		Page 280
1	Q. Okay.	1	considered?
2	A. I cited it in my report and	2	MR. LOCKE: Objection.
3	I read it	3	THE WITNESS: Yes, that's
4	O. The second list	4	pretty much the case.
5	A and the paper concluded	5	BY MR. GOLOMB:
6	that there was only a possibility of an	6	Q. All right. Was there was
7	association.	7	there ever a time when there was an
8	Q. The and it also showed an	8	article that was pulled, you looked at
9	increased risk of 1.31 with a confidence	9	it, you looked at the first paragraph and
10	interval above 95, right?	10	said this isn't related to what I'm
11	MR. LOCKE: Objection.	11	looking at?
12	THE WITNESS: And it	12	A. It's rarely the first
13	concluded that that it was only	13	paragraph. But yes, every month.
14	possible. Yes.	14	Q. And and if we if we
15	BY MR. GOLOMB:	15	looked at the the Borak & Company
16	Q. And the the second column	16	invoices, a monthly invoice, and compared
17	is Attachment 2, "Materials Considered."	17	it to this list, would we find billing
18	A. Yes.	18	for each and every article that you
19	Q. All right. Let let's	19	reviewed or read?
20	take a look at Exhibit 14, please.	20	MR. LOCKE: Objection.
21	(Document marked for	21	THE WITNESS: You might.
22	identification as Exhibit	22	BY MR. GOLOMB:
23	Borak-14.)	23	Q. So let's look at Exhibit 15,
24	THE WITNESS: Yes, I	24	which is Attachment 3 to your report,
	Page 279		
	Page 279		Page 281
1	recognize yes, I recognize	1	"The Chronology of Opinions."
2	recognize yes, I recognize that.	1 2	"The Chronology of Opinions." (Document marked for
	recognize yes, I recognize that. BY MR. GOLOMB:	2 3	"The Chronology of Opinions."
2 3 4	recognize yes, I recognize that.  BY MR. GOLOMB: Q. What is what is materials	2 3 4	"The Chronology of Opinions."  (Document marked for identification as Exhibit Borak-15.)
2 3 4 5	recognize yes, I recognize that.  BY MR. GOLOMB:  Q. What is what is materials considered?	2 3 4 5	"The Chronology of Opinions."  (Document marked for identification as Exhibit Borak-15.)  THE WITNESS: Thank you.
2 3 4 5 6	recognize yes, I recognize that.  BY MR. GOLOMB: Q. What is what is materials considered? A. This reflects this is a	2 3 4 5 6	"The Chronology of Opinions."  (Document marked for identification as Exhibit Borak-15.)  THE WITNESS: Thank you. BY MR. GOLOMB:
2 3 4 5 6 7	recognize yes, I recognize that.  BY MR. GOLOMB: Q. What is what is materials considered? A. This reflects this is a list. This is a list of published	2 3 4 5 6 7	"The Chronology of Opinions."  (Document marked for identification as Exhibit Borak-15.)  THE WITNESS: Thank you. BY MR. GOLOMB: Q. What is that?
2 3 4 5 6 7 8	recognize yes, I recognize that.  BY MR. GOLOMB: Q. What is what is materials considered? A. This reflects this is a list. This is a list of published articles and perhaps websites that I have	2 3 4 5 6	"The Chronology of Opinions."  (Document marked for identification as Exhibit Borak-15.)  THE WITNESS: Thank you. BY MR. GOLOMB:
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	- 000		7 004
	Page 282		Page 284
1	indicates those opinions which I thought	1	and, in fact, trial testimony, correct?
2	were germane to the question of whether	2	MR. LOCKE: Objection.
3	it was said, when it was said and by	3	THE WITNESS: I think so, I
4	whom.	4	don't know if there was trial
5	Q. And you you just called	5	testimony. But there may have
6	them primary references. What do you	6	been.
7	mean by primary references?	7	BY MR. GOLOMB:
8	MR. HEGARTY: Objection.	8	Q. I'm sorry?
9	THE WITNESS: I I meant	9	A. I don't know that there was
10	in terms of those which I compiled	10	trial testimony. But there may have
11	into a list of references. There	11	been. I'm not disagreeing with you.
12	were many, there were 504 papers.	12	Q. And so just as an example,
13	Many of them said nothing about	13	on Page 5 of the exhibit
14	talc. Many of them offered	14	MR. LOCKE: Which exhibit?
15	nothing more than a conjecture	15	15?
16	about talc.	16	MR. GOLOMB: Exhibit 15.
17	I was looking for those	17	BY MR. GOLOMB:
18	statements that appeared to be	18	Q. You have a quote there from
19	relatively encompassing and	19	Dr. Ness.
20	specific.	20	Do you see that?
21	And I listed them	21	A. Yes. At the top of the
22	chronologically, because that was	22	page?
23	what I was asked to do. I wasn't	23	Q. Right.
24	asked to make a list. But I was	24	A. Yes.
	Page 283		Page 285
1		1	
1 2	asked to approach this literature	1 2	Q. And there it says, "Hill's
1 2 3	asked to approach this literature in a chronological way. And to my	2	Q. And there it says, "Hill's tenants suggest that talc use causes
2	asked to approach this literature in a chronological way. And to my thinking, this was a good way of	1	Q. And there it says, "Hill's tenants suggest that talc use causes ovarian cancer." Right?
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	Page 286		Page 288
1	A. I think that there was	1	Q. Okay. So as an example,
2	Q what are you referring	2	on let's go to Page 2 of Exhibit 15
3	to?	3	under Dr. Cramer.
4	A probably would have been	4	Do you see that?
5	another list with this, but perhaps not.	5	A. Yes.
6	That referred specifically	6	Q. Do you know how so there
7	to	7	you quote, and it says, "The associations
8	Q. When you say "that," what	8	still viewed with skepticism based upon
9	are you referring to?	9	weak odds ratio, poor dose-response
10	A. The Ness quote that you	10	relationship, and an incomplete
11	pointed to	11	understanding of the biological mechanism
12	Q. Yes.	12	by which tale might lead to ovarian
13	A from 2015. That comes	13	cancer."
14	from no, it is not on this list. That	14	A. Yes.
15	was the list that was Exhibit 8. And I	15	Q. All right. And what is the
16	would have expected that there was	16	import of that statement?
17	another list which went with this other	17	MR. LOCKE: Objection.
18	Attachment 3.		THE WITNESS: I think
19		18	
20	Q. Well, let's look at Exhibit 16.	19	it's
21		20	BY MR. GOLOMB:
21	(Document marked for	21	Q. Asked another way, in an
	identification as Exhibit	22	11-page study, why is that the line that
23	Borak-16.)	23	you pulled out?
24	BY MR. GOLOMB:	24	A. Because at the time
	D 207		
	Page 287		Page 289
1	Q. Exhibit 16 is entitled	1	Page 289  Dr. Cramer was an expert in this
1 2		1 2	
	Q. Exhibit 16 is entitled		Dr. Cramer was an expert in this
2	Q. Exhibit 16 is entitled MR. LOCKE: You get the one	2	Dr. Cramer was an expert in this litigation.
2	Q. Exhibit 16 is entitled MR. LOCKE: You get the one that's marked as an exhibit.	2 3	Dr. Cramer was an expert in this litigation.  Q. Because what?
2 3 4	<ul> <li>Q. Exhibit 16 is entitled MR. LOCKE: You get the one that's marked as an exhibit.</li> <li>BY MR. GOLOMB:</li> <li>Q. Exhibit 16 is entitled</li> </ul>	2 3 4	Dr. Cramer was an expert in this litigation.  Q. Because what?  A. He was an expert at that
2 3 4 5	Q. Exhibit 16 is entitled MR. LOCKE: You get the one that's marked as an exhibit. BY MR. GOLOMB:	2 3 4 5	Dr. Cramer was an expert in this litigation.  Q. Because what?  A. He was an expert at that time in this litigation.
2 3 4 5 6	<ul> <li>Q. Exhibit 16 is entitled MR. LOCKE: You get the one that's marked as an exhibit.</li> <li>BY MR. GOLOMB: Q. Exhibit 16 is entitled</li> <li>"Chronology of Opinions Reference List"?</li> </ul>	2 3 4 5 6	Dr. Cramer was an expert in this litigation.  Q. Because what?  A. He was an expert at that time in this litigation.  Q. Dr. Cramer?  A. Not in 1999. And it seemed
2 3 4 5 6 7	<ul> <li>Q. Exhibit 16 is entitled MR. LOCKE: You get the one that's marked as an exhibit.</li> <li>BY MR. GOLOMB: Q. Exhibit 16 is entitled</li> <li>"Chronology of Opinions Reference List"? A. Yes. And Number 21, which</li> </ul>	2 3 4 5 6 7	Dr. Cramer was an expert in this litigation.  Q. Because what?  A. He was an expert at that time in this litigation.  Q. Dr. Cramer?
2 3 4 5 6 7 8	<ul> <li>Q. Exhibit 16 is entitled MR. LOCKE: You get the one that's marked as an exhibit.</li> <li>BY MR. GOLOMB: Q. Exhibit 16 is entitled "Chronology of Opinions Reference List"? A. Yes. And Number 21, which appeared in the chronology of opinions,</li> </ul>	2 3 4 5 6 7 8	Dr. Cramer was an expert in this litigation.  Q. Because what?  A. He was an expert at that time in this litigation.  Q. Dr. Cramer?  A. Not in 1999. And it seemed a very succinct statement of the fact
2 3 4 5 6 7 8 9	<ul> <li>Q. Exhibit 16 is entitled MR. LOCKE: You get the one that's marked as an exhibit.</li> <li>BY MR. GOLOMB: Q. Exhibit 16 is entitled</li> <li>"Chronology of Opinions Reference List"? A. Yes. And Number 21, which appeared in the chronology of opinions, corresponds to Number 21 on the</li> </ul>	2 3 4 5 6 7 8 9	Dr. Cramer was an expert in this litigation.  Q. Because what?  A. He was an expert at that time in this litigation.  Q. Dr. Cramer?  A. Not in 1999. And it seemed a very succinct statement of the fact that this was unproven.
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### Case 3:16-md-02738-MAS-RLS Document 9737-8 Filed 05/07/19 Page 450 of 516 PageID: 39150 Jonathan Borak, M.D., DABT

	Page 290		Page 292
1	every year from ovarian cancer?	1	50 that are identified in the first
2	MR. LOCKE: Objection.	2	reference list and in the body of your
3	MR. HEGARTY: Objection.	3	· · ·
4	THE WITNESS: I have no	4	report?
5			A. Yes, that's correct. There
	independent recollection of that.	5	are different reference lists for
6	BY MR. GOLOMB:	6	different parts. Funny, I thought that
7	Q. Do you have I mean, those	7	made it easier. Teach me.
8	are very common statistics that you can	8	Q. And if we look at
9	find in dozens and dozens of articles and	9	Exhibit 17, that's your Attachment 4 of
10	studies that you have identified as	10	the web pages?
11	references in your report. It doesn't	11	A. We don't have it yet.
12	sound familiar?	12	MR. LOCKE: It might be over
13	MR. HEGARTY: Objection.	13	here. Let me check.
14	MR. LOCKE: Objection.	14	THE WITNESS: We don't have
15	That's a different question.	15	it here. It's coming.
16	MR. GOLOMB: That's the	16	(Document marked for
17	question.	17	identification as Exhibit
18	MR. LOCKE: You're asking	18	Borak-17.)
19	about a footnote, or are you	19	BY MR. GOLOMB:
20	asking about are those numbers	20	Q. And so if I understand this
21	familiar to him?	21	four-page document, these are websites
22	BY MR. GOLOMB:	22	that you looked at as part of your
23	Q. Are those familiar	23	background research?
24	numbers familiar to you?	24	A. Yes.
	numbers familiar to you.		(1. 103.)
	Page 291		Page 293
1	Page 291  A. They sound like the right	<u> </u>	Page 293  O. And what you just taking,
1 2	_	1 2	
	A. They sound like the right	1 2 3	Q. And what you just taking, let's look at the Cancer Council of
2	A. They sound like the right dimension. But I don't remember the specific numbers.	1 2 3 4	Q. And what you just taking, let's look at the Cancer Council of Australia as an example. It says,
2 3	A. They sound like the right dimension. But I don't remember the specific numbers.  Q. Okay. And are you aware	1 2 3 4 5	Q. And what you just taking, let's look at the Cancer Council of Australia as an example. It says, "Inferred risks." And then underneath
2 3 4 5	A. They sound like the right dimension. But I don't remember the specific numbers.  Q. Okay. And are you aware that in the 1999 study, where you pull	1 2 3 4 5	Q. And what you just taking, let's look at the Cancer Council of Australia as an example. It says, "Inferred risks." And then underneath that it says, "Perineal use of talc-based
2 3 4	A. They sound like the right dimension. But I don't remember the specific numbers.  Q. Okay. And are you aware that in the 1999 study, where you pull out those two lines, that Dr. Cramer's	1 2 3 4 5 6	Q. And what you just taking, let's look at the Cancer Council of Australia as an example. It says, "Inferred risks." And then underneath that it says, "Perineal use of talc-based body powder."
2 3 4 5 6 7	A. They sound like the right dimension. But I don't remember the specific numbers.  Q. Okay. And are you aware that in the 1999 study, where you pull out those two lines, that Dr. Cramer's opinion was 10 percent or 1,400 women per	1 2 3 4 5 6 7	Q. And what you just taking, let's look at the Cancer Council of Australia as an example. It says, "Inferred risks." And then underneath that it says, "Perineal use of talc-based body powder."  Do you see that?
2 3 4 5 6 7 8	A. They sound like the right dimension. But I don't remember the specific numbers.  Q. Okay. And are you aware that in the 1999 study, where you pull out those two lines, that Dr. Cramer's opinion was 10 percent or 1,400 women per year who die from ovarian cancer, die		Q. And what you just taking, let's look at the Cancer Council of Australia as an example. It says, "Inferred risks." And then underneath that it says, "Perineal use of talc-based body powder."  Do you see that?  A. Yes.
2 3 4 5 6 7 8 9	A. They sound like the right dimension. But I don't remember the specific numbers.  Q. Okay. And are you aware that in the 1999 study, where you pull out those two lines, that Dr. Cramer's opinion was 10 percent or 1,400 women per year who die from ovarian cancer, die from perineal use of talc?	8 9	Q. And what you just taking, let's look at the Cancer Council of Australia as an example. It says, "Inferred risks." And then underneath that it says, "Perineal use of talc-based body powder."  Do you see that?  A. Yes.  Q. And so these are just quotes
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. They sound like the right dimension. But I don't remember the specific numbers.  Q. Okay. And are you aware that in the 1999 study, where you pull out those two lines, that Dr. Cramer's opinion was 10 percent or 1,400 women per year who die from ovarian cancer, die from perineal use of talc?  MR. LOCKE: Objection.  MR. HEGARTY: Objection.  THE WITNESS: I don't think I remember that statement.  BY MR. GOLOMB:  Q. Okay. Just so I'm clear, the when I guess, then, Exhibit 15, the chronology of opinions, and Exhibit 16, the chronology of opinions reference list, should be read together?  A. Yes, correct.  Q. And so the numbers on the chronology of opinion, 1 through 37, have	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. And what you just taking, let's look at the Cancer Council of Australia as an example. It says, "Inferred risks." And then underneath that it says, "Perineal use of talc-based body powder."  Do you see that?  A. Yes.  Q. And so these are just quotes from the websites that you put on this list called web pages?  A. These were websites that I referred to in my report. And I did this because in my report, for brevity, I didn't include it all. I didn't want to be accused of cherry-picking.  Q. What do you mean by cherry-picking?  A. There were large lists, and I picked out in the body of my report one or two salient terms from paragraphs or lists. And just to be sure that nobody
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. They sound like the right dimension. But I don't remember the specific numbers.  Q. Okay. And are you aware that in the 1999 study, where you pull out those two lines, that Dr. Cramer's opinion was 10 percent or 1,400 women per year who die from ovarian cancer, die from perineal use of talc?  MR. LOCKE: Objection.  MR. HEGARTY: Objection.  THE WITNESS: I don't think I remember that statement.  BY MR. GOLOMB:  Q. Okay. Just so I'm clear, the when I guess, then, Exhibit 15, the chronology of opinions, and Exhibit 16, the chronology of opinions reference list, should be read together?  A. Yes, correct.  Q. And so the numbers on the chronology of opinion, 1 through 37, have nothing to do with bless you have	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. And what you just taking, let's look at the Cancer Council of Australia as an example. It says, "Inferred risks." And then underneath that it says, "Perineal use of talc-based body powder."  Do you see that?  A. Yes. Q. And so these are just quotes from the websites that you put on this list called web pages?  A. These were websites that I referred to in my report. And I did this because in my report, for brevity, I didn't include it all. I didn't want to be accused of cherry-picking.  Q. What do you mean by cherry-picking?  A. There were large lists, and I picked out in the body of my report one or two salient terms from paragraphs or lists. And just to be sure that nobody thought that I was screwing around with
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. They sound like the right dimension. But I don't remember the specific numbers.  Q. Okay. And are you aware that in the 1999 study, where you pull out those two lines, that Dr. Cramer's opinion was 10 percent or 1,400 women per year who die from ovarian cancer, die from perineal use of talc?  MR. LOCKE: Objection.  MR. HEGARTY: Objection.  THE WITNESS: I don't think I remember that statement.  BY MR. GOLOMB:  Q. Okay. Just so I'm clear, the when I guess, then, Exhibit 15, the chronology of opinions, and Exhibit 16, the chronology of opinions reference list, should be read together?  A. Yes, correct.  Q. And so the numbers on the chronology of opinion, 1 through 37, have	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. And what you just taking, let's look at the Cancer Council of Australia as an example. It says, "Inferred risks." And then underneath that it says, "Perineal use of talc-based body powder."  Do you see that?  A. Yes.  Q. And so these are just quotes from the websites that you put on this list called web pages?  A. These were websites that I referred to in my report. And I did this because in my report, for brevity, I didn't include it all. I didn't want to be accused of cherry-picking.  Q. What do you mean by cherry-picking?  A. There were large lists, and I picked out in the body of my report one or two salient terms from paragraphs or lists. And just to be sure that nobody

	Page 294		Page 296
1	that website and I included it here just	1	fifth most important in women. And I
1 2 3 4 5 6 7 8 9	to show transparently where the things		think it's a very serious topic. I
3	came from.	2 3	certainly didn't mean in any way to
4	Q. Well, you you said, using	4	suggest that I don't think this is of
5	your your words, I'm quoting you,	5	major importance to people.
6	screwing around with the data, in the	6	Q. Going back to your report.
7	I mean, you don't refer to the underlying	7	So in your discussion, and if you look
8	data at all, do you?	8	at as I ask you this question, I would
9	MR. LOCKE: Objection.	9	like you to look at Exhibit 7, which is
10	MR. HEGARTY: Objection.	10	your report, and Exhibit 9, which is the
11	THE WITNESS: In this case,	11	chart that we prepared.
12	the underlying data were that	12	Do you see that?
13	which was found on the websites or	13	A. Yes, I do.
14	in the articles.	14	Q. Okay. And now that we've
15	BY MR. GOLOMB:	15	gone over Attachment 2, the materials
16	Q. Right. I mean the	16	considered, and Attachment 3, the
17	underlying data of the dozens of	17	chronology of opinions, it puts in
18	case-control and cohort studies.	18	greater context this chart. Okay?
19	MR. LOCKE: Objection.	19	MR. HEGARTY: Objection.
20	THE WITNESS: I didn't touch	20	MR. LOCKE: Objection.
21	those data.	21	BY MR. GOLOMB:
22	BY MR. GOLOMB:	22	Q. Would you agree?
23	Q. So, and I think this has	23	A. I understood the chart when
24	been pretty established well	24	you first showed it to me.
2.4	been pretty established wen	24	you first showed it to file.
	Page 295		- 00-
	1 agc 255		Page 297
1	-	1	-
1 2	established. But if we look at, as an	1 2	Q. Okay. Now, we all we all
2	established. But if we look at, as an example, Page 2, under the National	2	-
2	established. But if we look at, as an example, Page 2, under the National Cancer Institute. This is something that	2 3	Q. Okay. Now, we all we all do. A. Wonderful.
2 3 4	established. But if we look at, as an example, Page 2, under the National Cancer Institute. This is something that you accessed three days before you wrote	2 3 4	Q. Okay. Now, we all we all do. A. Wonderful. Q. Excuse me?
2	established. But if we look at, as an example, Page 2, under the National Cancer Institute. This is something that you accessed three days before you wrote your report, correct?	2 3	Q. Okay. Now, we all we all do. A. Wonderful. Q. Excuse me? A. I said wonderful.
2 3 4 5	established. But if we look at, as an example, Page 2, under the National Cancer Institute. This is something that you accessed three days before you wrote your report, correct?  A. Yes, that's correct.	2 3 4 5	Q. Okay. Now, we all we all do. A. Wonderful. Q. Excuse me? A. I said wonderful. Q. Now, the reference list, 1
2 3 4 5 6	established. But if we look at, as an example, Page 2, under the National Cancer Institute. This is something that you accessed three days before you wrote your report, correct?	2 3 4 5 6	Q. Okay. Now, we all we all do. A. Wonderful. Q. Excuse me? A. I said wonderful. Q. Now, the reference list, 1 through you had 1 through 50 to the
2 3 4 5 6 7	established. But if we look at, as an example, Page 2, under the National Cancer Institute. This is something that you accessed three days before you wrote your report, correct?  A. Yes, that's correct.  Q. But other than the the 12/21/18 National Cancer Institute dated	2 3 4 5 6 7	Q. Okay. Now, we all we all do.  A. Wonderful. Q. Excuse me? A. I said wonderful. Q. Now, the reference list, 1 through you had 1 through 50 to the body of your report includes nine of the
2 3 4 5 6 7 8	established. But if we look at, as an example, Page 2, under the National Cancer Institute. This is something that you accessed three days before you wrote your report, correct?  A. Yes, that's correct.  Q. But other than the the	2 3 4 5 6 7 8	Q. Okay. Now, we all we all do. A. Wonderful. Q. Excuse me? A. I said wonderful. Q. Now, the reference list, 1 through you had 1 through 50 to the
2 3 4 5 6 7 8	established. But if we look at, as an example, Page 2, under the National Cancer Institute. This is something that you accessed three days before you wrote your report, correct?  A. Yes, that's correct.  Q. But other than the the 12/21/18 National Cancer Institute dated website, you didn't look at any of the	2 3 4 5 6 7 8 9	Q. Okay. Now, we all we all do.  A. Wonderful. Q. Excuse me? A. I said wonderful. Q. Now, the reference list, 1 through you had 1 through 50 to the body of your report includes nine of the 27 studies that show a statistically
2 3 4 5 6 7 8 9	established. But if we look at, as an example, Page 2, under the National Cancer Institute. This is something that you accessed three days before you wrote your report, correct?  A. Yes, that's correct. Q. But other than the the 12/21/18 National Cancer Institute dated website, you didn't look at any of the prior NCI websites?  A. I don't specifically recall.	2 3 4 5 6 7 8 9	Q. Okay. Now, we all we all do.  A. Wonderful. Q. Excuse me? A. I said wonderful. Q. Now, the reference list, 1 through you had 1 through 50 to the body of your report includes nine of the 27 studies that show a statistically significant increased risk of ovarian
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2 3 4 5 6 7 8 9 10 11 12 13	established. But if we look at, as an example, Page 2, under the National Cancer Institute. This is something that you accessed three days before you wrote your report, correct?  A. Yes, that's correct. Q. But other than the the 12/21/18 National Cancer Institute dated website, you didn't look at any of the prior NCI websites?  A. I don't specifically recall. Q. By the way, if you look at the last one on Page 3,	2 3 4 5 6 7 8 9 10 11 12 13	Q. Okay. Now, we all we all do.  A. Wonderful. Q. Excuse me? A. I said wonderful. Q. Now, the reference list, 1 through you had 1 through 50 to the body of your report includes nine of the 27 studies that show a statistically significant increased risk of ovarian cancer from the perineal use of talc A. Correct.  MR. LOCKE: Objection.
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	Page 298		Page 300
1 2 3 4 5 6	papers, although I've seen them	1	ago, you mentioned the fact that when I
2	cited a lot.	2	asked you about Ness 2000 and why as an
3	And Penin whoever that is	3	example that was not cited in the in
4	pronounced Penninkilampi is a	4	the the body of your report, you said
5	fairly recent paper and so I	5	that you thought it was. Can you
6	included it.	6	MR. LOCKE: Objection.
	BY MR. GOLOMB:	7	BY MR. GOLOMB:
8	Q. Well, you included Harlow	8	Q point that out for me?
9	1992, Gross 1995?	9	MR. HEGARTY: Objection.
10	A. I think those were more	10	THE WITNESS: I I may not
11	important markers in the chronology.	11	have. I'm thinking of the Ness
12	Q. And how did you determine	12	1999 paper on inflammation as
13	what was more important, that one thing	13	being an interesting benchmark,
14	was more important than something else?	14	but maybe I didn't cite it.
15	A. Some of it had to do with	15	It is well, I've got one
16	the comments of some of the experts in	16	Ness but that's not the same
17	their testimony. Some of it had to do	17	one. This is the one
18	with some of their publications. Some of	18	BY MR. GOLOMB:
19	it had to do with what lengths in	19	Q. You cite Ness in 2015.
20	particular opined with regards to the	20	A. I thought I had cited their
21	important papers when IARC looked at it.	21	1999 paper. I'm surprised that I didn't.
22	And so that certainly by the time	22	Q. Okay. And you you cite
23	the the Langseth and the IARC paper	23	the 2006 IARC in the body of your report
24	came out, there was a hierarchy of these	24	there, Paragraph 19, correct?
	came out, there was a meratory of these		mere, raragraph 19, contect.
	Page 299		Page 301
1	papers. I mean, that was pretty clear.	1	A. Yes. That's the Langseth
2	Q. But you've already indicated	2	report.
3	that you didn't you didn't weren't	3	Q. And you're you're aware
4	asked to opine and didn't consider the	4	that Dr. Siemiatycki was the chair of
5	hierarchy of the papers?	5	that of that IARC panel?
6	MR. LOCKE: Objection.	6	A. I think you'll find that I
7	MR. HEGARTY: Objection.	7	stated that in my report.
8	THE WITNESS: My	8	Q. Have have you ever served
9	understanding before is you were	9	as a panel member for IARC?
10	asking me about the hierarchy of	10	MR. LOCKE: Objection.
11	epidemiological formats.	11	THE WITNESS: I I think
12	BY MR. GOLOMB:	12	I've answered that earlier and
13	Q. Okay.	13	said no.
14	A. And what I'm saying here is	14	BY MR. GOLOMB:
15	that some of these papers were	15	Q. And the the Langseth
16	disregarded by Langseth for example, for	16	paper that you referred to, that was the
17	various and specific reasons. And I	17	2008 meta-analysis that was included
18	accepted that as I read, I was aware of	18	Dr. Siemiatycki?
19	the papers, and I read them all. But by	19	A. Yes, that's correct.
20	2006 those papers had been adjudicated,	20	Q. In the 1999 Cramer study,
21	so to speak, by the IARC group. And so I	21	you your quote that you picked out for
22	was looking for highlights in the	22	quotation in the exhibit
23	chronology prior to that.	23	A. Which exhibit, sir?
24	Q. All right. Just a moment	24	Q. Exhibit 15.

76 (Pages 298 to 301)

1	Page 302		Page 304
1	You begin with the	1	not a statement regarding to
2	associations still viewed with	2	whether it causes it. That was
3	skepticism.	3	simply he was giving his own
4	Do you see that?	4	view and opinion with regard to a
5	A. This is Cramer 1999. Yes.	5	public health issue.
6	Q. Okay. And why did you	6	BY MR. GOLOMB:
7	choose that line to include in your	7	Q. He was that's in his
8	chronology of opinions?	8	summary?
9	A. I would have to look at his	9	A. What you just read to me
10	paper to know what I cropped out before	10	Q. Right.
11	that. But let me make it clear that my	11	A was an opinion.
12	objective in doing this was to find	12	Q. That was an opinion, much
13	evidence, not to find negation.	13	the way your summary in your report is
14	Q. I'm sorry?	14	your opinion?
15	A. I say my purpose in this	15	MR. HEGARTY: Objection.
16	project was to find evidence of a	16	MR. LOCKE: Objection.
17	positive relationship between ovarian	17	THE WITNESS: My summary in
18	cancer and talc. I was not looking to	18	my report is a compilation of what
19	cite or refer to people who were just	19	other people have said, and I've
20	negative.	20	said based upon this, I find no
21	And I picked this because it	21	evidence of scientific proof. And
22	reflected, as I read it now, what looks	22	I've been looking for experts to
23	to me like Dr. Cramer's uncertainty and	23	opine on scientific proof. And I
24	doubt about the association, at least his	24	have not found it. That was my
	Page 303		Page 305
1	concerns that the association was not	1	opinion.
2			*
	solid.	2	And when Mr. Green at an
3	Q. Okay.	3	÷
3 4	<ul><li>Q. Okay.</li><li>A. But if you show me the</li></ul>	3 4	And when Mr. Green at an earlier time asked me whether that could be refuted, I said yes, you
3 4 5	Q. Okay. A. But if you show me the paper, I will be happy to see what	3 4 5	And when Mr. Green at an earlier time asked me whether that could be refuted, I said yes, you just have to find the report that
3 4	Q. Okay. A. But if you show me the paper, I will be happy to see what preceded this quote. And then it will	3 4	And when Mr. Green at an earlier time asked me whether that could be refuted, I said yes, you
3 4 5	Q. Okay. A. But if you show me the paper, I will be happy to see what	3 4 5	And when Mr. Green at an earlier time asked me whether that could be refuted, I said yes, you just have to find the report that
3 4 5 6	Q. Okay. A. But if you show me the paper, I will be happy to see what preceded this quote. And then it will help me to understand what I was thinking when I did this some years ago.	3 4 5 6 7 8	And when Mr. Green at an earlier time asked me whether that could be refuted, I said yes, you just have to find the report that refutes it. And I have not found that.  BY MR. GOLOMB:
3 4 5 6 7 8 9	Q. Okay. A. But if you show me the paper, I will be happy to see what preceded this quote. And then it will help me to understand what I was thinking when I did this some years ago. Q. Well, on the final paragraph	3 4 5 6 7 8	And when Mr. Green at an earlier time asked me whether that could be refuted, I said yes, you just have to find the report that refutes it. And I have not found that.  BY MR. GOLOMB: Q. And you cite in the body of
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3 4 5 6 7 8 9 10 11 12 13	Q. Okay. A. But if you show me the paper, I will be happy to see what preceded this quote. And then it will help me to understand what I was thinking when I did this some years ago. Q. Well, on the final paragraph of that report, of that of that article, it says, "In summary, we have demonstrated a consistent association between talc and ovarian cancer. It	3 4 5 6 7 8 9 10 11 12 13	And when Mr. Green at an earlier time asked me whether that could be refuted, I said yes, you just have to find the report that refutes it. And I have not found that.  BY MR. GOLOMB:  Q. And you cite in the body of your report the Langseth the Langseth, which we've talked about a lot, correct?  Number 13.  A. Langseth, yes, right.
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3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. Okay. A. But if you show me the paper, I will be happy to see what preceded this quote. And then it will help me to understand what I was thinking when I did this some years ago. Q. Well, on the final paragraph of that report, of that of that article, it says, "In summary, we have demonstrated a consistent association between talc and ovarian cancer. It appears unlikely to be explained by recall or confounding. Appropriate warnings should be provided to women	3 4 5 6 7 8 9 10 11 12 13 14 15 16	And when Mr. Green at an earlier time asked me whether that could be refuted, I said yes, you just have to find the report that refutes it. And I have not found that.  BY MR. GOLOMB:  Q. And you cite in the body of your report the Langseth the Langseth, which we've talked about a lot, correct? Number 13.  A. Langseth, yes, right. Q. And from the totality of the Langseth report, the single quotation that you cited in your report is, "The
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Okay. A. But if you show me the paper, I will be happy to see what preceded this quote. And then it will help me to understand what I was thinking when I did this some years ago. Q. Well, on the final paragraph of that report, of that of that article, it says, "In summary, we have demonstrated a consistent association between talc and ovarian cancer. It appears unlikely to be explained by recall or confounding. Appropriate warnings should be provided to women about the potential risk of regular use of talc in the genital area."	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	And when Mr. Green at an earlier time asked me whether that could be refuted, I said yes, you just have to find the report that refutes it. And I have not found that.  BY MR. GOLOMB:  Q. And you cite in the body of your report the Langseth the Langseth, which we've talked about a lot, correct?  Number 13.  A. Langseth, yes, right.  Q. And from the totality of the Langseth report, the single quotation that you cited in your report is, "The current body of experimental and epidemiological evidence is insufficient
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Okay. A. But if you show me the paper, I will be happy to see what preceded this quote. And then it will help me to understand what I was thinking when I did this some years ago. Q. Well, on the final paragraph of that report, of that of that article, it says, "In summary, we have demonstrated a consistent association between talc and ovarian cancer. It appears unlikely to be explained by recall or confounding. Appropriate warnings should be provided to women about the potential risk of regular use of talc in the genital area."  MR. LOCKE: Objection.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	And when Mr. Green at an earlier time asked me whether that could be refuted, I said yes, you just have to find the report that refutes it. And I have not found that.  BY MR. GOLOMB:  Q. And you cite in the body of your report the Langseth the Langseth, which we've talked about a lot, correct? Number 13.  A. Langseth, yes, right. Q. And from the totality of the Langseth report, the single quotation that you cited in your report is, "The current body of experimental and epidemiological evidence is insufficient to establish a causal association between
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Okay. A. But if you show me the paper, I will be happy to see what preceded this quote. And then it will help me to understand what I was thinking when I did this some years ago. Q. Well, on the final paragraph of that report, of that of that article, it says, "In summary, we have demonstrated a consistent association between talc and ovarian cancer. It appears unlikely to be explained by recall or confounding. Appropriate warnings should be provided to women about the potential risk of regular use of talc in the genital area."  MR. LOCKE: Objection. BY MR. GOLOMB:	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	And when Mr. Green at an earlier time asked me whether that could be refuted, I said yes, you just have to find the report that refutes it. And I have not found that.  BY MR. GOLOMB:  Q. And you cite in the body of your report the Langseth the Langseth, which we've talked about a lot, correct? Number 13.  A. Langseth, yes, right. Q. And from the totality of the Langseth report, the single quotation that you cited in your report is, "The current body of experimental and epidemiological evidence is insufficient to establish a causal association between perineal use of talc and ovarian cancer,"
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Okay. A. But if you show me the paper, I will be happy to see what preceded this quote. And then it will help me to understand what I was thinking when I did this some years ago. Q. Well, on the final paragraph of that report, of that of that article, it says, "In summary, we have demonstrated a consistent association between talc and ovarian cancer. It appears unlikely to be explained by recall or confounding. Appropriate warnings should be provided to women about the potential risk of regular use of talc in the genital area."  MR. LOCKE: Objection. BY MR. GOLOMB: Q. Why didn't you include that	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	And when Mr. Green at an earlier time asked me whether that could be refuted, I said yes, you just have to find the report that refutes it. And I have not found that.  BY MR. GOLOMB:  Q. And you cite in the body of your report the Langseth the Langseth, which we've talked about a lot, correct? Number 13.  A. Langseth, yes, right. Q. And from the totality of the Langseth report, the single quotation that you cited in your report is, "The current body of experimental and epidemiological evidence is insufficient to establish a causal association between perineal use of talc and ovarian cancer," correct?

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Jonathan Borak, M.D., DABT

	Page 306		Page 308
1	referring, when you're quoting, to	1	You started with IARC.
2	Exhibit 15 or Exhibit 7?	2	We're now in a different area.
3	MR. GOLOMB: Exhibit 7. No.	3	MR. GOLOMB: Is that an
4	I'm sorry, Exhibit 15.	4	objection?
5	THE WITNESS: Yes.	5	MR. LOCKE: Yes.
6	MR. GOLOMB: In his	6	BY MR. GOLOMB:
7	chronology of opinions.	7	Q. Okay. Can you answer my
8	THE WITNESS: Yes, I quoted	8	question?
9	that, and that's what they said.	9	A. Your question is that
10	BY MR. GOLOMB:	10	epidemiologists almost never can prove
11	Q. And what you didn't quote	11	causation. They demonstrate association.
12	was, "On balance, the epidemiological	12	Q. That wasn't my question
13	evidence suggests that the use of	13	though. So
14	cosmetic talc in the perineal area may be	14	A. Of course it was. You asked
15	associated with ovarian cancer risk. The	15	me whether epidemiological evidence was
16	mechanism of carcinogenicity may be	16	sufficient to conclude causation. That's
17	related to inflammation."	17	not how you said it.
18	You didn't quote that,	18	Q. Okay. My question was
19	correct?	19	simply, is it your opinion as an
20	MR. LOCKE: Objection.	20	epidemiologist that in order to prove
21	MR. HEGARTY: Objection.	21	causation, it must be proved beyond a
22	THE WITNESS: The conclusion	22	reasonable doubt?
23	of the study was that it was	23	MR. LOCKE: Objection.
24	possible but not proven or known.	24	MR. HEGARTY: Objection.
	possible out not proven of known.		The HEGHETT. Cojection.
	Page 307		Page 309
1	And that led to an IARC II-B	1	THE WITNESS: I think there
2	categorization. And that does not	2	has to be a substantial amount of
3	say that it was proven.	3	proof, yes.
4	BY MR. GOLOMB:	4	BY MR. GOLOMB:
5	Q. And by proven, you mean	5	Q. Okay. Substantial, do you
6	what?	6	equate substantial amount of proof with
7	A. In the case of IARC what	7	proof beyond a reasonable doubt?
8	does it mean?	8	MR. HEGARTY: Objection.
9	Q. No. You used you used	9	MR. LOCKE: Objection.
10	the word "proven." I'm asking you, what	10	THE WITNESS: It's
11	does proven mean?	11	semantical. I'm not trying to
12	MR. LOCKE: Objection.	12	define a legal or scientific
13	THE WITNESS: I think beyond	13	criterion. It depends upon the
1 1 1		1 1 1	4 4 124 C.4 1 C 42 41 41
14	reasonable doubt.	14	totality of the information that's
15	BY MR. GOLOMB:	15	available. And we know that there
15 16	BY MR. GOLOMB: Q. Okay. So in order in	15 16	available. And we know that there are associations which are not
15 16 17	BY MR. GOLOMB:  Q. Okay. So in order in order for from an epidemiological	15 16 17	available. And we know that there are associations which are not causal. And we know that there
15 16 17 18	BY MR. GOLOMB: Q. Okay. So in order in order for from an epidemiological standpoint, in order for an	15 16 17 18	available. And we know that there are associations which are not causal. And we know that there are some causation is that have
15 16 17 18 19	BY MR. GOLOMB: Q. Okay. So in order in order for from an epidemiological standpoint, in order for an epidemiologist to conclude that	15 16 17 18 19	available. And we know that there are associations which are not causal. And we know that there are some causation is that have less of different kinds of
15 16 17 18 19 20	BY MR. GOLOMB:  Q. Okay. So in order in order for from an epidemiological standpoint, in order for an epidemiologist to conclude that something some product causes a	15 16 17 18 19 20	available. And we know that there are associations which are not causal. And we know that there are some causation is that have less of different kinds of evidence. I think you have to
15 16 17 18 19 20 21	BY MR. GOLOMB:  Q. Okay. So in order in order for from an epidemiological standpoint, in order for an epidemiologist to conclude that something some product causes a disease, it has to be beyond a reasonable	15 16 17 18 19 20 21	available. And we know that there are associations which are not causal. And we know that there are some causation is that have less of different kinds of evidence. I think you have to look at all of the evidence.
15 16 17 18 19 20 21 22	BY MR. GOLOMB:  Q. Okay. So in order in order for from an epidemiological standpoint, in order for an epidemiologist to conclude that something some product causes a disease, it has to be beyond a reasonable doubt?	15 16 17 18 19 20 21 22	available. And we know that there are associations which are not causal. And we know that there are some causation is that have less of different kinds of evidence. I think you have to look at all of the evidence.  BY MR. GOLOMB:
15 16 17 18 19 20 21 22 23	BY MR. GOLOMB:  Q. Okay. So in order in order for from an epidemiological standpoint, in order for an epidemiologist to conclude that something some product causes a disease, it has to be beyond a reasonable doubt?  MR. HEGARTY: Objection.	15 16 17 18 19 20 21 22 23	available. And we know that there are associations which are not causal. And we know that there are some causation is that have less of different kinds of evidence. I think you have to look at all of the evidence.  BY MR. GOLOMB:  Q. Name name a an
15 16 17 18 19 20 21 22	BY MR. GOLOMB:  Q. Okay. So in order in order for from an epidemiological standpoint, in order for an epidemiologist to conclude that something some product causes a disease, it has to be beyond a reasonable doubt?	15 16 17 18 19 20 21 22	available. And we know that there are associations which are not causal. And we know that there are some causation is that have less of different kinds of evidence. I think you have to look at all of the evidence.  BY MR. GOLOMB:

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### Case 3:16-md-02738-MAS-RLS Document 9737-8 Filed 05/07/19 Page 455 of 516 PageID: 39155 Jonathan Borak, M.D., DABT

	Page 310		Page 312
1	conclude is also causation beyond a	1	exposures to powders has the capacity to
2	reasonable doubt?	2	cause ovarian cancer is the observation
3	MR. LOCKE: Objection.	3	of a 30 to 60 percent increase in risk
4	THE WITNESS: I think the	4	across most case-control studies. In
5	association of scrotal cancer in	5	this regard, our findings are similar to
6	chimney sweeps in England and the	6	prior studies."
7	causal relationship was pretty	7	But you didn't include that
8	definite. And that was without	8	in your report, did you?
9	experimentation.	9	MR. LOCKE: Objection.
10	BY MR. GOLOMB:	10	THE WITNESS: The question,
11	Q. Right. But not every	11	sir, was whether, when and by whom
12	chimney sweep gets scrotal cancer?	12	it was let me read it so
13	A. Isn't that amazing?	13	there's no question about my
14	Q. Right. Well, it's also	14	intent whether when and by whom
15	equally amazing that not every cigarette	15	it had been determined that
16	smoker gets lung cancer.	16	perineal use of talc-containing
17	MR. LOCKE: Objection.	17	powder caused ovarian cancer.
18	MR. HEGARTY: Objection.	18	And the quote that I had in
19	THE WITNESS: It is true	19	my report was if I can find the
20	that not every cigarette smoker	20	paragraph that you just pointed me
21	gets lung cancer.	21	to, "No stronger adjective than
22	BY MR. GOLOMB:	22	'possible.'"
23	Q. But do you believe that	23	And that's exactly the same
24	smoking cigarettes has been proved beyond	24	thing that IARC concluded and that
	Page 311		5 212
	1496 311		Page 313
1		1	
1 2	a reasonable doubt to cause lung cancer?  MR. LOCKE: Objection.	1 2	was what I was addressing. BY MR. GOLOMB:
	a reasonable doubt to cause lung cancer?		was what I was addressing. BY MR. GOLOMB:
2	a reasonable doubt to cause lung cancer?  MR. LOCKE: Objection.  THE WITNESS: Depending upon	2	was what I was addressing. BY MR. GOLOMB: Q. Is that what Rosenblatt
2 3	a reasonable doubt to cause lung cancer? MR. LOCKE: Objection.	2 3	was what I was addressing. BY MR. GOLOMB: Q. Is that what Rosenblatt said, what I just read to you, possible?
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2 3 4 5 6	a reasonable doubt to cause lung cancer?  MR. LOCKE: Objection.  THE WITNESS: Depending upon the circumstances of the smoking.  BY MR. GOLOMB:  Q. Now, in your report, going	2 3 4 5 6	was what I was addressing. BY MR. GOLOMB: Q. Is that what Rosenblatt said, what I just read to you, possible? A. I quoted this from Rosenblatt. Q. Yeah. The quote that I just
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Page 314	Page 316
	1490 310
1 appears warranted. 1 con	nfusing me. I'm sorry.
	R. GOLOMB:
3 Q. And you don't know what's 3 Q.	Okay. I said before we get
	llium I want to button something
5 MR. LOCKE: Objection. 5 down	
6 THE WITNESS: Not without 6 A.	I misheard you. I
7 you handing me the paper to read. 7 apologic	
	on Exhibit 7 and
9 Q. So earlier today I was 9 Exhibit	
	I was changing glasses so I
11 A. The what. 11 could re	
	For ease of reference, why
	ou put 7 and 8 in front of you.
· · · · · · · · · · · · · ·	I have them.
15 you were an expert in was Wanda 15 Q.	
16 Washington versus Lockheed Martin. Do 16 A.	- 401 0
17 you recall that? 17 of me.	5, 2 , wild 0 iii ii 0iit
18 A. Not by name. Tell me some 18 Q.	Okay. And so, in the body
= 11. The by hame. Ten me some	report, Exhibit 7, and on your
, , , , , , , , , , , , , , , , , , , ,	ce list, you cite to nine
	cally significant studies that
	any significant studies that I an increased risk of ovarian
(2000)110110111001101	from the perineal use of talc,
24 Borak-21.) 24 correct?	
Z4 Bolak-21.)	•
Page 315	Page 317
1 BY MR. GOLOMB: 1	MR. LOCKE: Objection.
2 Q. Okay. Does that look 2	THE WITNESS: It's possible.
	ould you show me in the report
	nere I did that, or I I
	ant to be sure that we're clear.
6 mine. 6 BY MF	R. GOLOMB:
8 Page 45? 8 your re	
9 A. Yes. I think so. 9 A.	-
10 Q. Okay. Let me let me just 10 Q.	
button down something on your report. 11 studies	
12 And we'll we'll come back to this on 12 A.	
	nd I'm just looking to see where
14 I just want to make sure 14 that is.	
15 that I'm clear that although you did cite 15 Q.	
16 to nine studies that showed a 16 A.	
17 statistically significant increased risk, 17 Q.	•
18 somewhere between 1.22 and 1.92 - 18 A.	
	That's a meta-analysis.
20 about beryllium? 20 Q.	
	e in your report.
that one aside. We're talking 22 A.	
$\epsilon$	But it's not an original study.
	neta-analysis.
I 44 I I I I I I I I I I I I I I I I I	

80 (Pages 314 to 317)

Jonathan Borak, M.D., DABT

	Page 318		Page 320
1	Q. I I didn't I	1	others. So in a sense it's double
2	MR. GOLOMB: Can we read	2	counting when you do it that way.
3	back my question?	3	BY MR. GOLOMB:
4	BY MR. GOLOMB:	4	Q. Okay. Well, let's talk
5	Q. I don't think I said	5	about the studies you didn't cite.
6	anything about an original study or	6	You didn't cite to
7	or but let's go back to the question.	7	there's a second Harlow study in '92.
8	MR. LOCKE: You said you	8	There is a Cramer '95.
9	said you cite to nine	9	MR. LOCKE: Objection. Your
10	statistically significant studies.	10	own Exhibit 9 shows that he did
11	THE WITNESS: Fine. It was	11	include it.
12	a statistically significant	12	MR. GOLOMB: That he did
13	meta-analysis.	13	include what?
14	BY MR. GOLOMB:	14	MR. LOCKE: It's all in his
15	Q. Okay. And a meta-analysis	15	materials considered. You've got
16	is, in your opinion, that's not a study?	16	Xs down the whole column
17	MR. LOCKE: Objection.	17	BY MR. GOLOMB:
18	THE WITNESS: It is a	18	Q. You didn't include it in
19		19	your reference list. You didn't include
20	different kind of a study. I	20	•
	thought you were talking about	1	it in the body of your report.
21	things with original data as	21	A. Yes, I didn't.
22	opposed to reanalysis of data.	22	Q. You did not?
23	BY MR. GOLOMB:	23	A. I did not.
24	Q. I didn't I didn't qualify	24	Q. Right. You didn't cite
	Page 319		Page 321
1	the question.	1	you didn't refer to Shusan '96, Chang
2	MR. LOCKE: Objection.	2	'97, Cook '97, Green '97, Godard '98,
3	THE WITNESS: I understand.	3	Ness 2000, Huncharek 2003, Mills 2004.
4	I misunderstood.	4	Merritt 2008, Wu 2009,
5	BY MR. GOLOMB:	5	Kurta, K-U-R-T-A, 2012, Liu 2015 or
6	Q. You cite to Penninkilampi.	6	Schildkraut 2016.
7	You cite to Berge. You cite to Cramer	7	MR. LOCKE: Objection.
8	2016. You cite to Terry. You cite to	8	BY MR. GOLOMB:
9	Langseth. You cite to Cramer '99. You	9	Q. You didn't refer to any of
10	cite to Gross. You you cite to Harlow	10	those 17 studies
11	'92. And you cite to Cramer '82. That's	11	A. Most
12	nine.	12	Q in the body of your
13	A. Okay.	13	report?
14	Q. All all various studies	14	MR. LOCKE: Objection.
15	that show a statistical increased risk	15	THE WITNESS: Most of those
16	from the use of talc perineally.	16	studies were subsumed in the
17	MR. LOCKE: Objection.	17	Langseth and subsequent
18	MR. HEGARTY: Objection.	18	meta-analysis.
19	BY MR. GOLOMB:	19	BY MR. GOLOMB:
20	Q. Do you agree?	20	Q. What subsequent
21	MR. LOCKE: Objection.	21	meta-analyses?
22	THE WITNESS: Yes. Although	22	A. Well, you mentioned one
	several of them just restate the	23	which was Penninkilampi, and others along
23			
23 24	same data as in some of the	24	the way.

81 (Pages 318 to 321)

	Page 322		Page 324	
1 Q. So Langseth was 2008. So		1	Beryllium Disease: The search for a	
2	it's your testimony that Wu, Kurta, Liu	2	dose-response," correct?	
3	and Schildkraut were all subsumed in	3	A. That's correct.	
4	Penninkilampi?	4	Q. Let's look at Paragraph 22.	
5	MR. LOCKE: Objection.	5	A. Paragraph	
6	THE WITNESS: No. Those	6 Q. I'm sorry. Exhibit 22.		
7	three were probably subsequently,	7 Q. Thi sorry. Exhibit 22.		
8	but I think that they were	8	have Exhibit 22 yet. So just	
9	addressed in Penninkilampi.	9	22.	
10	BY MR. GOLOMB:	10	MR. GOLOMB: Yeah, I'm	
11		11		
12	Q. Okay. So let's go back to	12	getting it for you.  THE WITNESS: Thank you.	
13	beryllium now. Exhibit 21. Are you with	13	(Document marked for	
14	me?	14	identification as Exhibit	
15	Does that refresh your	15		
	recollection about your role in the in	1	Borak-22.)	
16	the Wanda Washington case?	16 17	BY MR. GOLOMB:	
17	MR. LOCKE: Objection.	l	Q. So this is an article	
18	THE WITNESS: I I see the	18	that that you had published in	
19	name Wanda Washington. I see my	19	November of 2016, correct?	
20	name on it. I see Manatee County.	20	A. That seems right.	
21	And I remember being involved in a	21	Q. You can look	
22	court case that I think had to do	22	A. That's what it says on the	
23	with class certification.	23	top of the page. I don't recognize the	
24	BY MR. GOLOMB:	24	page because it's in a I have never	
	Page 323		Daga 225	
	1 age 323		Page 325	
1	Q. I'm sorry?	1	seen it in this format.	
2	<ul><li>Q. I'm sorry?</li><li>A. I remember it had something</li></ul>	1 2	seen it in this format.  Q. Well, this is do you want	
2 3	Q. I'm sorry?	2	seen it in this format.	
2	<ul><li>Q. I'm sorry?</li><li>A. I remember it had something</li></ul>	2	seen it in this format.  Q. Well, this is do you want	
2 3	<ul><li>Q. I'm sorry?</li><li>A. I remember it had something to do with class certification.</li></ul>	2	seen it in this format.  Q. Well, this is do you want to look at it to confirm that that, in fact, is your article? Or do you agree?  A. No, no, no, I accept it.	
2 3 4	<ul><li>Q. I'm sorry?</li><li>A. I remember it had something to do with class certification.</li><li>Q. All right. And you remember</li></ul>	2 3 4	seen it in this format.  Q. Well, this is do you want to look at it to confirm that that, in fact, is your article? Or do you agree?	
2 3 4 5	<ul> <li>Q. I'm sorry?</li> <li>A. I remember it had something to do with class certification.</li> <li>Q. All right. And you remember being deposed by my partner in this case?</li> <li>A. Probably. I remember your partner.</li> </ul>	2 3 4 5	seen it in this format.  Q. Well, this is do you want to look at it to confirm that that, in fact, is your article? Or do you agree?  A. No, no, no, I accept it.	
2 3 4 5 6	<ul> <li>Q. I'm sorry?</li> <li>A. I remember it had something to do with class certification.</li> <li>Q. All right. And you remember being deposed by my partner in this case?</li> <li>A. Probably. I remember your</li> </ul>	2 3 4 5 6	seen it in this format.  Q. Well, this is do you want to look at it to confirm that that, in fact, is your article? Or do you agree?  A. No, no, no, I accept it. I'm just telling you it's not familiar to	
2 3 4 5 6 7	<ul> <li>Q. I'm sorry?</li> <li>A. I remember it had something to do with class certification.</li> <li>Q. All right. And you remember being deposed by my partner in this case?</li> <li>A. Probably. I remember your partner.</li> </ul>	2 3 4 5 6 7	seen it in this format.  Q. Well, this is do you want to look at it to confirm that that, in fact, is your article? Or do you agree?  A. No, no, no, I accept it. I'm just telling you it's not familiar to look at it, because it's in a different	
2 3 4 5 6 7 8	<ul> <li>Q. I'm sorry?</li> <li>A. I remember it had something to do with class certification.</li> <li>Q. All right. And you remember being deposed by my partner in this case?</li> <li>A. Probably. I remember your partner.</li> <li>Q. Now, when you said this was</li> </ul>	2 3 4 5 6 7 8	seen it in this format.  Q. Well, this is do you want to look at it to confirm that that, in fact, is your article? Or do you agree?  A. No, no, no, I accept it. I'm just telling you it's not familiar to look at it, because it's in a different format. It's in an HTML format as	
2 3 4 5 6 7 8 9	<ul> <li>Q. I'm sorry?</li> <li>A. I remember it had something to do with class certification.</li> <li>Q. All right. And you remember being deposed by my partner in this case?</li> <li>A. Probably. I remember your partner.</li> <li>Q. Now, when you said this was a medical monitoring case, what what</li> </ul>	2 3 4 5 6 7 8 9	seen it in this format.  Q. Well, this is do you want to look at it to confirm that that, in fact, is your article? Or do you agree?  A. No, no, no, I accept it. I'm just telling you it's not familiar to look at it, because it's in a different format. It's in an HTML format as opposed to a pdf.	
2 3 4 5 6 7 8 9	<ul> <li>Q. I'm sorry?</li> <li>A. I remember it had something to do with class certification.</li> <li>Q. All right. And you remember being deposed by my partner in this case?</li> <li>A. Probably. I remember your partner.</li> <li>Q. Now, when you said this was a medical monitoring case, what what does that mean?</li> </ul>	2 3 4 5 6 7 8 9	seen it in this format.  Q. Well, this is do you want to look at it to confirm that that, in fact, is your article? Or do you agree?  A. No, no, no, I accept it.  I'm just telling you it's not familiar to look at it, because it's in a different format. It's in an HTML format as opposed to a pdf.  Q. And it's an article that you	
2 3 4 5 6 7 8 9 10	Q. I'm sorry? A. I remember it had something to do with class certification. Q. All right. And you remember being deposed by my partner in this case? A. Probably. I remember your partner. Q. Now, when you said this was a medical monitoring case, what what does that mean? A. I didn't say medical	2 3 4 5 6 7 8 9 10 11	seen it in this format.  Q. Well, this is do you want to look at it to confirm that that, in fact, is your article? Or do you agree?  A. No, no, no, I accept it. I'm just telling you it's not familiar to look at it, because it's in a different format. It's in an HTML format as opposed to a pdf.  Q. And it's an article that you wrote for the Journal of Occupational	
2 3 4 5 6 7 8 9 10 11	Q. I'm sorry? A. I remember it had something to do with class certification. Q. All right. And you remember being deposed by my partner in this case? A. Probably. I remember your partner. Q. Now, when you said this was a medical monitoring case, what what does that mean? A. I didn't say medical monitoring.	2 3 4 5 6 7 8 9 10 11 12	seen it in this format.  Q. Well, this is do you want to look at it to confirm that that, in fact, is your article? Or do you agree?  A. No, no, no, I accept it. I'm just telling you it's not familiar to look at it, because it's in a different format. It's in an HTML format as opposed to a pdf.  Q. And it's an article that you wrote for the Journal of Occupational Environmental Medicine, correct?	
2 3 4 5 6 7 8 9 10 11 12 13	Q. I'm sorry? A. I remember it had something to do with class certification. Q. All right. And you remember being deposed by my partner in this case? A. Probably. I remember your partner. Q. Now, when you said this was a medical monitoring case, what what does that mean? A. I didn't say medical monitoring. MR. HEGARTY: Objection.	2 3 4 5 6 7 8 9 10 11 12 13	seen it in this format.  Q. Well, this is do you want to look at it to confirm that that, in fact, is your article? Or do you agree?  A. No, no, no, I accept it. I'm just telling you it's not familiar to look at it, because it's in a different format. It's in an HTML format as opposed to a pdf.  Q. And it's an article that you wrote for the Journal of Occupational Environmental Medicine, correct?  A. That's correct.	
2 3 4 5 6 7 8 9 10 11 12 13	Q. I'm sorry? A. I remember it had something to do with class certification. Q. All right. And you remember being deposed by my partner in this case? A. Probably. I remember your partner. Q. Now, when you said this was a medical monitoring case, what what does that mean? A. I didn't say medical monitoring. MR. HEGARTY: Objection. BY MR. GOLOMB:	2 3 4 5 6 7 8 9 10 11 12 13 14	seen it in this format.  Q. Well, this is do you want to look at it to confirm that that, in fact, is your article? Or do you agree?  A. No, no, no, I accept it.  I'm just telling you it's not familiar to look at it, because it's in a different format. It's in an HTML format as opposed to a pdf.  Q. And it's an article that you wrote for the Journal of Occupational Environmental Medicine, correct?  A. That's correct.  Q. And it it indicates near	
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. I'm sorry? A. I remember it had something to do with class certification. Q. All right. And you remember being deposed by my partner in this case? A. Probably. I remember your partner. Q. Now, when you said this was a medical monitoring case, what what does that mean? A. I didn't say medical monitoring. MR. HEGARTY: Objection. BY MR. GOLOMB: Q. What did you say?	2 3 4 5 6 7 8 9 10 11 12 13 14 15	seen it in this format.  Q. Well, this is do you want to look at it to confirm that that, in fact, is your article? Or do you agree?  A. No, no, no, I accept it. I'm just telling you it's not familiar to look at it, because it's in a different format. It's in an HTML format as opposed to a pdf.  Q. And it's an article that you wrote for the Journal of Occupational Environmental Medicine, correct?  A. That's correct.  Q. And it it indicates near the top under author information that you	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. I'm sorry? A. I remember it had something to do with class certification. Q. All right. And you remember being deposed by my partner in this case? A. Probably. I remember your partner. Q. Now, when you said this was a medical monitoring case, what what does that mean? A. I didn't say medical monitoring. MR. HEGARTY: Objection. BY MR. GOLOMB: Q. What did you say? A. Class certification.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	seen it in this format.  Q. Well, this is do you want to look at it to confirm that that, in fact, is your article? Or do you agree?  A. No, no, no, I accept it. I'm just telling you it's not familiar to look at it, because it's in a different format. It's in an HTML format as opposed to a pdf.  Q. And it's an article that you wrote for the Journal of Occupational Environmental Medicine, correct?  A. That's correct.  Q. And it it indicates near the top under author information that you served as a paid expert in	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. I'm sorry? A. I remember it had something to do with class certification. Q. All right. And you remember being deposed by my partner in this case? A. Probably. I remember your partner. Q. Now, when you said this was a medical monitoring case, what what does that mean? A. I didn't say medical monitoring. MR. HEGARTY: Objection. BY MR. GOLOMB: Q. What did you say? A. Class certification. Q. Oh, class certification.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	seen it in this format.  Q. Well, this is do you want to look at it to confirm that that, in fact, is your article? Or do you agree?  A. No, no, no, I accept it. I'm just telling you it's not familiar to look at it, because it's in a different format. It's in an HTML format as opposed to a pdf.  Q. And it's an article that you wrote for the Journal of Occupational Environmental Medicine, correct?  A. That's correct.  Q. And it it indicates near the top under author information that you served as a paid expert in beryllium-related litigation, correct?  A. Yes.	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. I'm sorry? A. I remember it had something to do with class certification. Q. All right. And you remember being deposed by my partner in this case? A. Probably. I remember your partner. Q. Now, when you said this was a medical monitoring case, what what does that mean? A. I didn't say medical monitoring. MR. HEGARTY: Objection. BY MR. GOLOMB: Q. What did you say? A. Class certification. Q. Oh, class certification. And we I had asked you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	seen it in this format.  Q. Well, this is do you want to look at it to confirm that that, in fact, is your article? Or do you agree?  A. No, no, no, I accept it. I'm just telling you it's not familiar to look at it, because it's in a different format. It's in an HTML format as opposed to a pdf.  Q. And it's an article that you wrote for the Journal of Occupational Environmental Medicine, correct?  A. That's correct.  Q. And it it indicates near the top under author information that you served as a paid expert in beryllium-related litigation, correct?  A. Yes.	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. I'm sorry? A. I remember it had something to do with class certification. Q. All right. And you remember being deposed by my partner in this case? A. Probably. I remember your partner. Q. Now, when you said this was a medical monitoring case, what what does that mean? A. I didn't say medical monitoring. MR. HEGARTY: Objection. BY MR. GOLOMB: Q. What did you say? A. Class certification. Q. Oh, class certification. And we I had asked you earlier about the fact that there was we were talking about dose-response and	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	seen it in this format.  Q. Well, this is do you want to look at it to confirm that that, in fact, is your article? Or do you agree?  A. No, no, no, I accept it. I'm just telling you it's not familiar to look at it, because it's in a different format. It's in an HTML format as opposed to a pdf.  Q. And it's an article that you wrote for the Journal of Occupational Environmental Medicine, correct?  A. That's correct.  Q. And it it indicates near the top under author information that you served as a paid expert in beryllium-related litigation, correct?  A. Yes.  Q. It doesn't say by whom you were paid though, right?	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. I'm sorry? A. I remember it had something to do with class certification. Q. All right. And you remember being deposed by my partner in this case? A. Probably. I remember your partner. Q. Now, when you said this was a medical monitoring case, what what does that mean? A. I didn't say medical monitoring. MR. HEGARTY: Objection. BY MR. GOLOMB: Q. What did you say? A. Class certification. Q. Oh, class certification. And we I had asked you earlier about the fact that there was	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	seen it in this format.  Q. Well, this is do you want to look at it to confirm that that, in fact, is your article? Or do you agree?  A. No, no, no, I accept it. I'm just telling you it's not familiar to look at it, because it's in a different format. It's in an HTML format as opposed to a pdf.  Q. And it's an article that you wrote for the Journal of Occupational Environmental Medicine, correct?  A. That's correct.  Q. And it it indicates near the top under author information that you served as a paid expert in beryllium-related litigation, correct?  A. Yes.  Q. It doesn't say by whom you were paid though, right?  A. No, it didn't.	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. I'm sorry? A. I remember it had something to do with class certification. Q. All right. And you remember being deposed by my partner in this case? A. Probably. I remember your partner. Q. Now, when you said this was a medical monitoring case, what what does that mean? A. I didn't say medical monitoring. MR. HEGARTY: Objection. BY MR. GOLOMB: Q. What did you say? A. Class certification. Q. Oh, class certification. And we I had asked you earlier about the fact that there was we were talking about dose-response and beryllium, remember that? A. I think I do.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	seen it in this format.  Q. Well, this is do you want to look at it to confirm that that, in fact, is your article? Or do you agree?  A. No, no, no, I accept it. I'm just telling you it's not familiar to look at it, because it's in a different format. It's in an HTML format as opposed to a pdf.  Q. And it's an article that you wrote for the Journal of Occupational Environmental Medicine, correct?  A. That's correct.  Q. And it it indicates near the top under author information that you served as a paid expert in beryllium-related litigation, correct?  A. Yes.  Q. It doesn't say by whom you were paid though, right?  A. No, it didn't.  Q. Do you think it's of any	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. I'm sorry? A. I remember it had something to do with class certification. Q. All right. And you remember being deposed by my partner in this case? A. Probably. I remember your partner. Q. Now, when you said this was a medical monitoring case, what what does that mean? A. I didn't say medical monitoring. MR. HEGARTY: Objection. BY MR. GOLOMB: Q. What did you say? A. Class certification. Q. Oh, class certification. And we I had asked you earlier about the fact that there was we were talking about dose-response and beryllium, remember that? A. I think I do.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	seen it in this format.  Q. Well, this is do you want to look at it to confirm that that, in fact, is your article? Or do you agree?  A. No, no, no, I accept it. I'm just telling you it's not familiar to look at it, because it's in a different format. It's in an HTML format as opposed to a pdf.  Q. And it's an article that you wrote for the Journal of Occupational Environmental Medicine, correct?  A. That's correct.  Q. And it it indicates near the top under author information that you served as a paid expert in beryllium-related litigation, correct?  A. Yes.  Q. It doesn't say by whom you were paid though, right?  A. No, it didn't.	

82 (Pages 322 to 325)

### Case 3:16-md-02738-MAS-RLS Document 9737-8 Filed 05/07/19 Page 459 of 516 PageID: 39159 Jonathan Borak, M.D., DABT

	Page 326		Page 328
1	really, that in in addition to letting	1	were talking about from before 1946?
2	the reader know that you were paid as an	2	A. Tabershaw and Hardy.
3	expert, that by by whom you were	3	Q. I'm sorry?
4	paid?	4	A. Tabershaw and Hardy.
5	MR. HEGARTY: Objection.	5	Q. Right.
6	THE WITNESS: I now that	6 And if you go above that,	
7	you point it out to me, I should	you see the paragraph that begins wi	
8	have probably said that I had been	8	but until very recently?
9	paid primarily on the defense	9	A. Yes.
10	side.	10	Q. "But until very recently the
11	BY MR. GOLOMB:	11	dose relatedness of beryllium exposure
12	Q. And if you go to and	12	was 'obscure and unclear.' In turn, the
13	you you'll recall earlier in the	13	lack of an objective dose-response curve
14	deposition I asked you about studies	14	has complicated development of
15	concerning beryllium exposure and	15	appropriate health and safety programs
16	beryllium disease dating back to 1946.	16	for beryllium exposed workers."
17	A. Yes.	17	Did I read that correctly?
18	Q. Right? And you, I I	18	A. You read that correctly.
19	think, correct me if I'm wrong, you told	19	Q. Okay. So while the
20	me that you don't recall when the studies	20	the and I think you later on in the
21	were, but you know that they went back	21	in the article on Page 3 where it says
22	decades, correct?	22	the early studies?
23	MR. LOCKE: Objection.	23	A. Yes.
24	THE WITNESS: More or less	24	Q. "Since earliest reports, CBD
	Page 327		Page 329
1	what I said.	1	has been viewed as a puzzling disease in
2	BY MR. GOLOMB:	2	part due to the apparent lack of
3	Q. Okay. And, in fact, I got	3	classical dose-response between exposure
4	that information from the article that	4	and disease."
5	you wrote?	5	A. Yes.
6	A. Fantastic. I didn't know it	6	Q. Right? So but between
7	was actually read.	7	1946 and very recently, there was no
8	Q. So if if you look at	8	question about the association between
9	Page 2 it says beryllium? In big bold	9	beryllium exposure and beryllium disease,
10	letters, it says, "Beryllium uncertain	10	but there was a question about
11	dose relatedness."	11	dose-response. Is that accurate?
12	Do you see that?	12	MR. HEGARTY: Objection.
13	A. Yes.	13	MR. LOCKE: Objection.
14	Q. And right underneath that it	14	THE WITNESS: It was
15	says, CBD is an immunologically mediated	15	difficult to set up occupational
		16	health and safety programs,
16	granulomatous disease that importantly		
16 17	affects the lung. The first clear	17	because, in some cases people got
16 17 18	affects the lung. The first clear association between beryllium disease and	17 18	because, in some cases people got chronic beryllium disease from
16 17 18 19	affects the lung. The first clear association between beryllium disease and CBD was a 1946 report of chronic lung	17 18 19	because, in some cases people got chronic beryllium disease from being neighbors of the Lorraine,
16 17 18 19 20	affects the lung. The first clear association between beryllium disease and CBD was a 1946 report of chronic lung disease in fluorescent light bulb workers	17 18 19 20	because, in some cases people got chronic beryllium disease from being neighbors of the Lorraine, Ohio, plant which we are talking
16 17 18 19 20 21	affects the lung. The first clear association between beryllium disease and CBD was a 1946 report of chronic lung disease in fluorescent light bulb workers exposed to beryllium containing	17 18 19 20 21	because, in some cases people got chronic beryllium disease from being neighbors of the Lorraine, Ohio, plant which we are talking about. And in other cases, in the
16 17 18 19 20 21 22	affects the lung. The first clear association between beryllium disease and CBD was a 1946 report of chronic lung disease in fluorescent light bulb workers exposed to beryllium containing phosphorous," right?	17 18 19 20 21 22	because, in some cases people got chronic beryllium disease from being neighbors of the Lorraine, Ohio, plant which we are talking about. And in other cases, in the Lorraine, Ohio, workers they did
16 17 18 19 20 21 22 23	affects the lung. The first clear association between beryllium disease and CBD was a 1946 report of chronic lung disease in fluorescent light bulb workers exposed to beryllium containing phosphorous," right?  A. Yes.	17 18 19 20 21 22 23	because, in some cases people got chronic beryllium disease from being neighbors of the Lorraine, Ohio, plant which we are talking about. And in other cases, in the Lorraine, Ohio, workers they did not have a higher rated disease
16 17 18 19 20 21 22	affects the lung. The first clear association between beryllium disease and CBD was a 1946 report of chronic lung disease in fluorescent light bulb workers exposed to beryllium containing phosphorous," right?	17 18 19 20 21 22	because, in some cases people got chronic beryllium disease from being neighbors of the Lorraine, Ohio, plant which we are talking about. And in other cases, in the Lorraine, Ohio, workers they did

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### Case 3:16-md-02738-MAS-RLS Document 9737-8 Filed 05/07/19 Page 460 of 516 PageID: 39160 Jonathan Borak, M.D., DABT

	Page 330		Page 332
1	1 hugely higher levels of exposure.		let's take a break. It's probably
2	BY MR. GOLOMB:	2	a good time for a break. And I
3	Q. Right. And the same thing	3	I want to find something.
4	with the the Cabot plant in Reading,	4	THE VIDEOGRAPHER: Going off
5	Pennsylvania. There were there were	5	the record. The time is 2:49.
6	workers who worked in the Cabot plant for	6	(Short break.)
7	decades and never got chronic beryllium	7	THE VIDEOGRAPHER: We are
8	disease, correct?	8	going back on record. Beginning
9	A. Yes	9	Media File Number 4. The time is
10	MR. LOCKE: Objection.	10	2:59.
11	THE WITNESS: Yes, I think	11	BY MR. GOLOMB:
12	that's true.	12	Q. Doctor, going back to
13	BY MR. GOLOMB:	13	Exhibit 7, your report, Paragraph 42 on
14	Q. Right. And there were	14	Page 11.
15	and there were neighbors who lived in the	15	A. Bear with me, I'm sorry, I
16	adjacent neighborhood to the Cabot plant	16	have to sort through things to make sure
17	that, in fact, did get chronic beryllium	17	I have the right exhibit.
18	disease from a much less volume of	18	MR. LOCKE: We which one
19	exposure through the ambient air,	19	are you looking for?
20	correct?	20	THE WITNESS: 7.
21	MR. LOCKE: Objection.	21	MR. GOLOMB: 7.
22	MR. HEGARTY: Objection.	22	MR. LOCKE: Okay.
23	THE WITNESS: Although, when	23	THE WITNESS: And what page,
24	you look at those people, none of	24	sir?
	Page 331		Daga 222
	1436 331		Page 333
1	them were exposed after the	1	BY MR. GOLOMB:
2	them were exposed after the implementation of the first	2	BY MR. GOLOMB: Q. Page 11, Paragraph 42.
2	them were exposed after the implementation of the first exposure limits in 1949-1950. All		BY MR. GOLOMB: Q. Page 11, Paragraph 42. A. 11. 42. Thank you.
2 3 4	them were exposed after the implementation of the first exposure limits in 1949-1950. All of the neighborhood cases were	2 3 4	BY MR. GOLOMB: Q. Page 11, Paragraph 42. A. 11. 42. Thank you. Q. And that refers to Health
2 3 4 5	them were exposed after the implementation of the first exposure limits in 1949-1950. All of the neighborhood cases were people who lived in this very	2 3 4 5	BY MR. GOLOMB: Q. Page 11, Paragraph 42. A. 11. 42. Thank you. Q. And that refers to Health Canada, correct?
2 3 4 5 6	them were exposed after the implementation of the first exposure limits in 1949-1950. All of the neighborhood cases were people who lived in this very narrow valley, down wind from the	2 3 4 5 6	BY MR. GOLOMB: Q. Page 11, Paragraph 42. A. 11. 42. Thank you. Q. And that refers to Health Canada, correct? A. Yes, correct.
2 3 4 5 6 7	them were exposed after the implementation of the first exposure limits in 1949-1950. All of the neighborhood cases were people who lived in this very narrow valley, down wind from the plant, and all had first lived in	2 3 4 5 6 7	BY MR. GOLOMB: Q. Page 11, Paragraph 42. A. 11. 42. Thank you. Q. And that refers to Health Canada, correct? A. Yes, correct. Q. And Health Canada crudely is
2 3 4 5 6 7 8	them were exposed after the implementation of the first exposure limits in 1949-1950. All of the neighborhood cases were people who lived in this very narrow valley, down wind from the plant, and all had first lived in that valley prior to 1950, and at	2 3 4 5 6 7 8	BY MR. GOLOMB: Q. Page 11, Paragraph 42. A. 11. 42. Thank you. Q. And that refers to Health Canada, correct? A. Yes, correct. Q. And Health Canada crudely is the Canadian version of the FDA?
2 3 4 5 6 7 8	them were exposed after the implementation of the first exposure limits in 1949-1950. All of the neighborhood cases were people who lived in this very narrow valley, down wind from the plant, and all had first lived in that valley prior to 1950, and at the time when there was unchecked,	2 3 4 5 6 7 8 9	BY MR. GOLOMB: Q. Page 11, Paragraph 42. A. 11. 42. Thank you. Q. And that refers to Health Canada, correct? A. Yes, correct. Q. And Health Canada crudely is the Canadian version of the FDA? MR. HEGARTY: Objection.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	them were exposed after the implementation of the first exposure limits in 1949-1950. All of the neighborhood cases were people who lived in this very narrow valley, down wind from the plant, and all had first lived in that valley prior to 1950, and at the time when there was unchecked, unlimited exposures.  BY MR. GOLOMB:  Q. But the the bottom line to this, is it not, Doctor, that between 1946 and well into the 2000s, there was no question that that beryllium exposure caused beryllium disease but there certainly was a question as to whether or not there was a dose dose-response relationship?  MR. LOCKE: Objection.  THE WITNESS: There were questions about characterizing a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MR. GOLOMB:  Q. Page 11, Paragraph 42. A. 11. 42. Thank you. Q. And that refers to Health Canada, correct? A. Yes, correct. Q. And Health Canada crudely is the Canadian version of the FDA? MR. HEGARTY: Objection. MR. LOCKE: Objection. THE WITNESS: I wouldn't have thought of them that way. I think of them as closer to Department of Health & Human Services in a certain sense. BY MR. GOLOMB: Q. And you reviewed the Health Canada assessment as part of deriving at your opinion? A. I included it in in my review, yes. Q. And you you quoted two

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1 A. I have two statements there 2 that I quoted, yes. 3 Q. One is, "Given that there 4 is" — "there is the potential for 5 perincal exposure to tale from the use of 6 various healthcare products, a potential 7 concern for human health has been 8 identified," correct? 9 A. Yes, correct. 10 Q. And the second — the second 11 sentence that you quote from the Health 12 Canada assessment report is, "There are 13 limitations with the human 14 epidemiological data. Ovarian cancer in 15 general is not well understood, and a 16 comparable animal model is not 17 available." 18 Is that — 19 A. Yes — 19 A. Yes — 20 Q. — the — 21 A. — I wrote that also. 22 Q. Okay, Sol et — let's talk 23 a little bit about what else the — the 24 Health Canada assessment says that you  Page 335  1 did not include in your report. 2 MR. GOLOMB: Exhibit 25. 3 (Document marked for identification as Exhibit Borak-25). 4 identification as Exhibit Page 335  1 Q. And on the second page of the last paragraph, the sentence begins, the meta-analysis, do you see that?  A. Yes. 10 Q. And on the second page of the last paragraph, the sentence begins, the meta-analysis of the available that at are indicative of a causal effect."  Did I read that correct?  A. You did. Q. And the non the last paragraph that begins with, "Based on." Do you see that? A. "Based on the available information "— C. — "it is proposed that there is a potential for harm, human health, in Canada a turrent levels of exposure. Therefore, on the basis of the information presented in this draft screening assessment, it is proposed to conclude that tale meet the criteria under Paragraph 4(e) of CEPA" — CE-F-A. "and it is entering or may constitute a danger in Canada to human life or health." Did I read that correct? A. You did. Q. If you d		Page 334		Page 336
2 that I quoted, yes. 3 Q. One is, "Given that there 4 is" - "there is the potential for 5 perineal exposure to tale from the use of 6 various healthcare products, a potential 7 concern for human health has been 8 identified," correct? 9 A. Yes, correct. 10 Q. And the second the second 11 sentence that you quote from the Health 12 Canada assessment report is, "There are 13 limitations with the human 14 epidemiological data. Ovarian cancer in 15 general is not well understood, and a 16 comparable animal model is not 17 available." 18 Is that 19 A. Yes 20 Q the 21 A I wrote that also. 22 Q. Okay. So let let's talk 23 a little bit about what else the the 24 Health Canada assessment says that you  Page 335  1 did not include in your report. 2 MR. GOLOMB: Exhibit 25. 3 (Document marked for identification as Exhibit Borak-25.)  BY MR. GOLOMB: 4 very beginning of that, there's a synopsis, do you see that? 4 A. Yes. 10 Q. And on the second page of the last paragraph, the sentence begins, the meta-analysis, do you see that? 4 A. Yes. 1 Q. And it sentence begins, the meta-analysis, do you see that? 5 A. Yes. 1 Q. And on the second page of the last paragraph, the sentence begins, the meta-analysis of the available human  1 Do you see that?  A. You did. Q. A. Mothen on the last paragraph that segins with, "Based on." Do you see that? A. "Based on the available information " Q"it is proposed that there is a potential for harm, human health, in Canada at current levels of exposure. Therefore, on the basis of the information presented in this draft screening assessment, it is proposed to conclude that talc meet the criteria under Paragraph 64(c) of CEPA" CE-F-A. "and it is entering or may constitute a danger in Canada to human life or health." Did I read that correctly?  Page 335  Fage 337  A. You did. Q. If you go to Page 16 of the Canada haelth assessment. A. I'll be there in a moment. A. Yes. Did I'l				
3			1	
4 is" — "there is the potential for perincal exposure to tale from the use of various healthcare products, a potential concern for human health has been identified," correct?  9 A. Yes, correct.  10 Q. And the second — the second sentence that you quote from the Health 12 Canada assessment report is, "There are limitations with the human epidemiological data. Ovarian cancer in general is not well understood, and a comparable animal model is not available."  11				
5 perineal exposure to talc from the use of various healthcare products, a potential concern for human health has been identified," correct?  9 A. Yes, correct. 10 Q. And the second the second sentence that you quote from the Health 2 Canada assessment report is, "There are limitations with the human epidemiological data. Ovarian cancer in general is not well understood, and a comparable animal model is not available."  18 Is that			l	
6 various healthcare products, a potential 7 concern for human health has been identified," correct? 8 identified," correct? 9 A. Yes, correct. 10 Q. And the second the second 11 sentence that you quote from the Health 12 Canada assessment report is, "There are limitations with the human epidemiological data. Ovarian cancer in 15 general is not well understood, and a 16 comparable animal model is not 21 available." 18 Is that 19 A. Yes 19 A. Yes 19 A. Yes 19 CE.P.A. "and it is entering or may enter the environment in a quantity or concentration or under conditions that 22 Q. Okay. So let let's talk 23 a little bit about what else the the 24 Health Canada assessment says that you  Page 335  1 did not include in your report. 1		<u>*</u>	1	
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7 Q. Now, in the very in the 8 very beginning of that, there's a 9 synopsis, do you see that? 10 A. Yes. 11 Q. And on the second page of 12 that synopsis, at the at the second to 13 the last paragraph, the sentence begins, 14 the meta-analysis, do you see that? 15 A. I see the paragraph that 16 starts with that word, yes. 17 Q. And it says, "The 18 meta-analysis of the available human 18 MR. LOCKE: You really shouldn't. 18 MR. LOCKE: You really shouldn't. 19 Won't. 10 Won't. 11 Page 16? 12 BY MR. GOLOMB: 12 BY MR. GOLOMB: 13 Q. Yes. 14 A. Yes. 15 A. I see the paragraph that 15 Q. Do you see where it says 16 human studies? 17 A. Yes. 18 MR. LOCKE: You really				Am I allowed to mark on
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11 Q. And on the second page of 12 that synopsis, at the at the second to 13 the last paragraph, the sentence begins, 14 the meta-analysis, do you see that? 15 A. I see the paragraph that 16 starts with that word, yes. 17 Q. And it says, "The 18 meta-analysis of the available human  11 Page 16? 12 BY MR. GOLOMB: 13 Q. Yes. 14 A. Yes. 15 Q. Do you see where it says 16 human studies? 17 A. Yes. 18 Q. If you go to the and it		• •	l	•
that synopsis, at the at the second to the last paragraph, the sentence begins, the meta-analysis, do you see that?  A. I see the paragraph that starts with that word, yes.  Q. And it says, "The meta-analysis of the available human  12 BY MR. GOLOMB: Q. Yes. A. Yes. Q. Do you see where it says human studies? A. Yes. Q. If you go to the and it				
the last paragraph, the sentence begins, the meta-analysis, do you see that?  A. I see the paragraph that starts with that word, yes.  Q. Yes.  A. Yes.  Do you see where it says human studies?  Q. Do you see where it says human studies?  A. Yes.  Results with that word, yes. Results with the wo				
14the meta-analysis, do you see that?14A. Yes.15A. I see the paragraph that15Q. Do you see where it says16starts with that word, yes.16human studies?17Q. And it says, "The17A. Yes.18meta-analysis of the available human18Q. If you go to the and it			l	
15 A. I see the paragraph that 16 starts with that word, yes. 17 Q. And it says, "The 18 meta-analysis of the available human 15 Q. Do you see where it says 16 human studies? 17 A. Yes. 18 Q. If you go to the and it			1	
16 starts with that word, yes. 17 Q. And it says, "The 18 meta-analysis of the available human 19 Human studies? 17 A. Yes. 18 Q. If you go to the and it			l	
17 Q. And it says, "The 17 A. Yes. 18 meta-analysis of the available human 18 Q. If you go to the and it			1	
18 meta-analysis of the available human 18 Q. If you go to the and it			l	
justice with the control of the cont			1	
I IV studies in the near reviewed literature I IV reters to Terry. It reters to Reroe. It			l	
J	19	studies in the peer-reviewed literature	19	refers to Terry. It refers to Berge. It
20 indicate a consistent and statistically 20 refers to Penninkilampi. It refers to		•	1	
21 significant positive association between 21 Taher, correct?		• .		
22 perineal exposure to talc and ovarian 22 A. Several meta-analyses, yes.				
23 cancer." 23 Q. And then it says, "These 24 Studies have consistently reported a				•
Did I read that correctly? 24 studies have consistently reported a	24	Did I fead that correctly?	44	studies have consistently reported a

85 (Pages 334 to 337)

	Page 338		Page 340
1			necrosis factor, and other inflammatory
2	and perineal talc exposure," correct?	2	markers are detected in the blood of
3	A. That's what it says.	3	women prior to diagnosis of ovarian
4	Q. "Taher and colleagues	4	cancer."
5	identified 27 studies, 24 case-control,	5	Do you agree with that?
6	and three cohort, for a meta-analysis.	6	MR. HEGARTY: Objection.
7	Ever versus never use of perineal talc	7	MR. LOCKE: Objection.
8	and the risk of ovarian cancer resulted	8	THE WITNESS: I agree that
9	in a statistically significant pooled	9	that's what's written.
10	odds ratio of 1.28," correct?	10	BY MR. GOLOMB:
11	A. That's what is right.	11	Q. Do you agree with the
12	Q. That means that there is a	12	statement or do you not have an opinion
13	28 percent increased risk of ovarian	13	on it one way or the other?
14	cancer with the genital use of talc?	14	A. Detected in the blood of
15	MR. LOCKE: Objection.	15	women prior to diagnosis, that is
16	MR. HEGARTY: Objection.	16	generally correct, but it does not imply
17	BY MR. GOLOMB:	17	what it it does not mean what it seems
18	Q. Correct?	18	to imply.
19	A. That's one way of reading	19	Q. Do you agree with the
20	that, yes.	20	statement that with respect to talc
21	Q. Go to Page 18. You see it	21	specifically, local chronic irritation,
22	says, "Mode of action"?	22	leading to an inflammatory response, is
23	A. I see that.	23	one possible mechanism of tumor
24	MR. LOCKE: There's a	24	progression that is frequently
1	handwritten note to that, next to	1	hypothesized?
2	that, that was not part of the	2	A. It has been hypothesized,
3	original.	3	perhaps frequently. But to my knowledge,
4	MR. GOLOMB: That's my	4	there is no evidence that talc causes
5	handwriting.	5	inflammation and cancer of the ovary.
6	MR. LOCKE: Okay.	6	Q. And if you go to Page 19.
7	BY MR. GOLOMB:	7	The second-to-last paragraph. Now,
8	Q. Okay. Do you recall reading	8	you've read Taher before, right?
9	this section of the study?	9	T-A-H-E-R?
10	A. I'm sure that I did. But I	10	A. Yes, yes, yes.
11	don't recall it.	11	Q. It says, "The most recent
12	Q. Okay. It says, on	12	meta-analysis," and it refers to Taher
13	paragraph the second paragraph that	13	2018, "employed the Hill criteria to
14	begins, "With respect."	14	assess the epidemiological evidence of a
15	Do you see that?	15	causal relationship."
16	A. Yes.	16	Correct?
17	Q. "With respect to the talc	17	A. Yes. That's what it says.
18	specifically, local chronic irritation	18	Q. "These considerations form a
19	leading to an inflammatory response is	19	framework for evaluating evidence in
20	one possible mechanism of tumor	20	humans to help determine whether observed
21	progression that is frequently	21	associations are causal," correct?
22	hypothesized. It is known that	22	A. Yes. Used for inference of
23	persistent indications of inflammation,	23	causation.
24	including C-reactive protein, tumor	24	Q. Now, that's something that
<b>4</b>	including C-reactive brotein, tunion		

86 (Pages 338 to 341)

Page 342			Page 344		
1	you did not do, because you weren't asked	1	F.1.81 F.1.81		
2	to do that, correct?	2	includes the totality of your opinions in		
3	MR. LOCKE: Objection.	3	this case, correct?		
4	MR. HEGARTY: Objection.	4	MR. LOCKE: Objection.		
5			THE WITNESS: They include		
6 inferring causation. I was		6	my opinions with respect to		
7	7 reviewing what was presented. And		whether, when, and by whom it had		
8	you might add here, for the	8	been determined that perineal use		
9	record, that Taher concluded that	9	of talc-containing powder causes		
10	the risk was possible	10	ovarian cancer.		
11	BY MR. GOLOMB:	11	If you ask me other		
12	Q. And	12	questions, it's possible that I		
13	A based upon the Bradford	13	will have other opinions.		
14	Hill analysis that you	14	BY MR. GOLOMB:		
15	Q. Yeah. I know you keep	15	Q. Well		
16	saying that. And go to Page 21 of this	16	MR. LOCKE: Just so we		
17	report. That's the third time you said	17	know and he also attached. You		
18	that.	18	want to call Exhibit 7 his report,		
19	A. I wasn't counting. But	19	but he's got pages and pages that		
20	perhaps you're right.	20	follow that, which we've gone		
21	Q. "The most recent	21	through, and they've been entered		
22	meta-analysis detailed above, Taher"	22	in as exhibits.		
23	MR. LOCKE: Okay. Where are	23	MR. GOLOMB: Fair enough.		
24	you at?	24	Let's go through the list.		
	Page 343		Page 345		
1	MR. GOLOMB: Page 21.	1	BY MR. GOLOMB:		
2	MR. LOCKE: Oh, middle of	2	Q. Where in Paragraph 8 I'm		
3	the page.	3	sorry, Exhibit 8		
4	BY MR. GOLOMB:	4	A. Which exhibit?		
5	Q. Just above 6.2. "The most	5	Q. Exhibit 8.		
6	recent analysis detailed above, and	6	A. Exhibit 8.		
7	consistent with the Hill criteria,	7	Q. Where in Exhibit 8 do you		
8	suggests a small, but consistent	8	express any opinions?		
9	statistically significant positive	9	A. Exhibit 8 was broken from		
10	association between ovarian cancer and	10	the original report and was part of 7.		
11	perineal exposure to talc."	11	Q. Right. My question was,		
12	A. That's what it says.	12	where I'm just responding to a point		
13	Q. Right. It doesn't say	13 14	that was made, a fair point, that was made by Mr. Locke. And my question to		
14 15	anything about being possible, correct?	15	• • • • • • • • • • • • • • • • • • • •		
16	A. Ah, but Taher, which you're	16	you very simply is, where in Exhibit 8 do you express an opinion on anything?		
17	quoting, specifically says it's only	17			
18	possible.	18	A. There is no specific		
19	<ul><li>Q. You sure about that?</li><li>A. I think so.</li></ul>	19	opinions at all in Exhibit 8.  I did not submit Exhibit 8		
20	<ul><li>A. I think so.</li><li>Q. Let's look at so</li></ul>	20	as a separate standalone.		
21	yesterday well, before I go there, let	21	Q. And take a look at		
22	me ask you this.	22	Exhibit 10 which is the the list of		
23	So going back to seven of	23	expert reports, testimony, and other		
24	your report. You are, just to be clear,	24	related materials.		
i	, F	I			

87 (Pages 342 to 345)

Jonathan Borak, M.D., DABT

Page 346 Page 346					
1	Where in Exhibit 10 do you	1	expressed by me in Exhibit 17.		
2	express an opinion on anything?	2	Q. Okay. So going back to my		
3	A. There is no opinion	3	original question then. Exhibit 7, the		
4	contained in Exhibit 10.	4	totality of your opinions is on Page 13		
5	That's not correct. I have	5	of this report where you say, "In		
6	no opinion contained in Exhibit 10. Most	6	summary, I conclude that science has not		
7	of Exhibit 10 reflects the opinions of a	7 established that perineal use causes			
8	great number of people. So we have to be	8	ovarian cancer"		
9	careful how we use the word opinion	9	MR. LOCKE: Objection.		
10	there.	10	MR. GOLOMB: I'm not I'm		
11	Q. Well, my my question was	11	not done, but		
12	about your opinion, right?	12	MR. LOCKE: Okay.		
13	A. I assume that that's what	13	MR. GOLOMB: I understand		
14	you were asking, but we	14	by the pause that you could have		
15	Q. Well, you don't have to	15	thought I was.		
16	assume it. If you want the question	16	BY MR. GOLOMB:		
17	re-read, you can see that is specifically	17	Q. You then go on to		
18	my my question.	18	Paragraph 47 and you say, "Accordingly,		
19	A. Ask it back. Just so I	19	it is my opinion to a reasonable degree		
20	just for clarity.	20	of scientific certainty that science has		
21	Q. Where in Exhibit 10 do you,	21	not established that perineal talc use		
22	Dr. Jonathan Borak, express an opinion on	22	causes ovarian cancer."		
23	anything?	23	That's your opinion,		
24	A. That's a new question. The	24	correct?		
	Page 347		Page 349		
1	answer is I didn't do that in Exhibit 10.	1	A. Yes. It's my opinion.		
2	answer is I didn't do that in Exhibit 10. Q. Same question for	2	A. Yes. It's my opinion. MR. LOCKE: Well, objection.		
2 3	answer is I didn't do that in Exhibit 10.  Q. Same question for Exhibit 14.	2	A. Yes. It's my opinion.  MR. LOCKE: Well, objection.  THE WITNESS: Excuse me.		
2 3 4	answer is I didn't do that in Exhibit 10.  Q. Same question for Exhibit 14.  A. Your question is, did I	2 3 4	A. Yes. It's my opinion.  MR. LOCKE: Well, objection.  THE WITNESS: Excuse me.  MR. LOCKE: Go ahead.		
2 3 4 5	answer is I didn't do that in Exhibit 10.  Q. Same question for Exhibit 14.  A. Your question is, did I express any opinion	2 3 4 5	A. Yes. It's my opinion.  MR. LOCKE: Well, objection.  THE WITNESS: Excuse me.  MR. LOCKE: Go ahead.  THE WITNESS: No, no, no,		
2 3 4 5 6	answer is I didn't do that in Exhibit 10.  Q. Same question for Exhibit 14.  A. Your question is, did I express any opinion Q. Where in Exhibit 14 do you,	2 3 4 5 6	A. Yes. It's my opinion.  MR. LOCKE: Well, objection.  THE WITNESS: Excuse me.  MR. LOCKE: Go ahead.  THE WITNESS: No, no, no, please go ahead.		
2 3 4 5 6 7	answer is I didn't do that in Exhibit 10.  Q. Same question for Exhibit 14.  A. Your question is, did I express any opinion Q. Where in Exhibit 14 do you, Dr. Jonathan Borak, express an opinion on	2 3 4 5	A. Yes. It's my opinion.  MR. LOCKE: Well, objection.  THE WITNESS: Excuse me.  MR. LOCKE: Go ahead.  THE WITNESS: No, no, no, please go ahead.  MR. LOCKE: No, that I		
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	Page 350		Page 352	
1	Q. And and as you told us	1 Q. Okay. And we're going to		
2	earlier, that you you believe that in	2	look at the updated materials. And so,	
3	order for there to be scientific	3	in fact, you did provide exhibit	
4	certainty, that there must be proof	4	I'll I'll I haven't since I just	
5	beyond a reasonable doubt?	5	got this yesterday, I haven't had an	
6	MR. LOCKE: Objection.	6	opportunity to to photocopy it. But I	
7	MR. HEGARTY: Objection.	7	assume that everybody has this.	
8	BY MR. GOLOMB:	8	(Document marked for	
9	Q. That's what you told us?	9	identification as Exhibit	
10	MR. LOCKE: Objection.	10	Borak-29.)	
11	THE WITNESS: Yes, but	11	BY MR. GOLOMB:	
12	that's separate from this	12	Q. It is Dr. Borak's	
13	document. This document was a	13	supplemental materials considered,	
14	review of who said what, where and	14	correct?	
15	when.	15	A. Correct. I think that's	
16	BY MR. GOLOMB:	16	right.	
17	Q. Understood.	17	Q. And these include some	
18	A. Okay.	18	expert reports, an expert deposition, and	
19	Q. Okay. And that is the	19	one, two, three, four, five six	
20	totality of what you were asked to do,	20	separate published scientific study	
21	that is the totality of your opinions in	21	literature?	
22	this case, and that is the totality of	22	A. Yes, that's correct. There	
23	what you wrote in your 13-page report	23	were actually for the record more	
24	dated February 25, 2019?	24	articles which I read and threw away. An	
	Page 351	1	5 050	
	rage 331		Page 353	
1	MR. LOCKE: Objection.	1	Page 353 example you gave earlier where I might	
2		1 2	example you gave earlier where I might have read something and found it was not	
2 3	MR. LOCKE: Objection.		example you gave earlier where I might	
2 3 4	MR. LOCKE: Objection. MR. HEGARTY: Objection. BY MR. GOLOMB: Q. Correct?	2	example you gave earlier where I might have read something and found it was not	
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1	1 based on your review of this?		smoking, and usage of perineal talc."
2	A. They I did not change my	2	Is that it?
3	opinions as a result of those reviews.	3	Q. Yeah.
4	Q. All right. One one of	4	MR. GOLOMB: If we take a
5	the articles that you you included was	5	let's take a short break. I'm
6	Lisio, "High Grade Serous Ovarian Cancer:	6 going to take a look at my notes	
7	Basic sciences, clinical and therapeutic	7	and talk to my colleagues, we may
8	standpoints," correct?	8	be done.
9	A. Yes. I think that's right.	9	THE VIDEOGRAPHER: Going off
10	I I don't doubt it please go ahead.	10	the record. The time is 3:20.
11	I don't doubt it.	11	(Short break.)
12	Q. Okay. That wasn't one of	12	THE VIDEOGRAPHER: We're
13	the throwaway articles, that's one of the	13	going back on record. Beginning
14	articles that you included?	14	media file number five. The time
15	A. Yes, that's correct.	15	is 3:26.
16	Q. All right. And and what	16	MR. GOLOMB: Doctor, that's
17	is it that you got out of Lisio that	17	all the questions we have.
18	that caused you to include it on here?	18	MR. LOCKE: Thank you.
19	A. I read it. I read it during	19	THE WITNESS: Thank you.
20	this period of time because it was a very	20	Nice to see you again.
21	recent publication.	21	MR. GOLOMB: Nice seeing
22	Q. Okay. So let's take a look	22	you.
23	at Lisio which we've marked as	23	THE VIDEOGRAPHER: This
24	Exhibit 32.	24	concludes today's deposition. We
	Page 355		Page 357
1	(Document marked for	1	are going off record. The time is
2	identification as Exhibit	2	3:26.
3	Borak-32.)	3	(Excused.)
4	BY MR. GOLOMB:	4	(Deposition concluded at
5	Q. I'm going to hand you	5	approximately 3:26 p.m.)
6	haven't had a chance to mark this. We	6	
7	just got this list last night.	7	
8	So just looking at the	8	
9	looking at the article, does that refresh	9	
10	your memory as to really what it was	10	
11	what it was about?	11	
12	A. It looks it looks	12	
13	certainly familiar.	13	
14	Q. Okay. Can you go to Page 6.	14	
15	A. Bear with me a minute.	15	
16	Page 6. Yes.	16	
17	Q. Can you go to the do you	17	
18	see the first full paragraph that begins	18	
19	with the word other?	19	
20	A. Yes.	20	
21	O Con you just road that	21	
	Q. Can you just read that		
22	sentence for us out loud?	22	
22 23	sentence for us out loud?  A. "Other potential risk	23	
22	sentence for us out loud?		

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Jonathan Borak, M.D., DABT

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	I HEREBY CERTIFY that the witness was duly sworn by me and that the deposition is a true record of the testimony given by the witness.  It was requested before completion of the deposition that the witness, JONATHAN BORAK, M.D., DABT, have the opportunity to read and sign the deposition transcript.  MICHELLE L. GRAY, A Registered Professional Reporter, Certified Shorthand Reporter, Certified Realtime Reporter and Notary Public Dated: April 2, 2019  (The foregoing certification of this transcript does not apply to any reproduction of the same by any means, unless under the direct control and/or supervision of the certifying reporter.)	ERRATA  ERRATA  PAGE LINE CHANGE  REASON:  REASON:
23 24	supervision of the certifying reporter.)	23
	Page 359	Page 361
1 2 3 4 5 6 7 8 9	Please read your deposition over carefully and make any necessary corrections. You should state the reason in the appropriate space on the errata sheet for any corrections that are made.  After doing so, please sign the errata sheet and date it.	ACKNOWLEDGMENT OF DEPONENT  ACKNOWLEDGMENT OF DEPONENT  I,
10 11 12 13 14 15 16 17 18 19 20	You are signing same subject to the changes you have noted on the errata sheet, which will be attached to your deposition.  It is imperative that you return the original errata sheet to the deposing attorney within thirty (30) days of receipt of the deposition transcript by you. If you fail to do so, the deposition transcript may be deemed to be accurate and may be used in court.	11 substance, if any, noted in the attached 12 Errata Sheet. 13 14 15 16 JONATHAN BORAK, M.D., DABT DATE 17 18 19 Subscribed and sworn to before me this 20 day of, 20 21 My commission expires:
21 22 23 24		22 Notary Public 24

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## Exhibit 12

7 o o O p o 295 M M y 4 965 P esident's Add ess b U The Environment and Disease: sso o ? b **Association or Causation?** b (Po sso E so U v s yo Lo o) so M s s, . T b bj M o b q b b b b j How b X . Н b b b v b b . T Z b b Z  $\mathbf{D}$ b v b b b b . W b b b . H b H j b Z 1 h. . T Z x b T b q b b b b  $\mathbf{D}$ 19 b h 2 b X b b b T q v

as great. On the other hand the death rate from coronary thrombosis in smokers is no more than twice, possibly less, the death rate in nonsmokers. Though there is good evidence to support causation it is surely much easier in this case to think of some features of life that may go hand-in-hand with smoking – features that might conceivably be the real underlying cause or, at the least, an important contributor, whether it be lack of exercise, nature of diet or other factors. But to explain the pronounced excess in cancer of the lung in any other environmental terms requires some feature of life so intimately linked with cigarette smoking and with the amount of smoking that such a feature should be easily detectable. If we cannot detect it or reasonably infer a specific one, then in such circumstances I think we are reasonably entitled to reject the vague contention of the armchair critic 'you can't prove it, there may be such a feature'.

Certainly in this situation I would reject the argument sometimes advanced that what matters is the absolute difference between the death rates of our various groups and not the ratio of one to other. That depends upon what we want to know. If we want to know how many extra deaths from cancer of the lung will take place through smoking (i.e. presuming causation), then obviously we must use the absolute differences between the death rates - 0.07 per 1,000 per year in nonsmoking doctors, 0.57 in those smoking 1-14 cigarettes daily, 1.39 for 15-24 cigarettes daily and 2.27 for 25 or more daily. But it does not follow here, or in more specifically occupational problems, that this best measure of the effect upon mortality is also the best measure in relation to ætiology. In this respect the ratios of 8, 20 and 32 to 1 are far more informative. It does not, of course, follow that the differences revealed by ratios are of any practical importance. Maybe they are, maybe they are not; but that is another point altogether.

We may recall John Snow's classic analysis of the opening weeks of the cholera epidemic of 1854 (Snow 1855). The death rate that he recorded in the customers supplied with the grossly polluted water of the Southwark and Vauxhall Company was in truth quite low – 71 deaths in each 10,000 houses. What stands out vividly is the fact that the small rate is 14 times the figure of 5 deaths per 10,000 houses supplied with the sewage-free water of the rival Lambeth Company.

In thus putting emphasis upon the strength of an association we must, nevertheless, look at the obverse of the coin. We must not be too ready to dismiss a cause-and-effect hypothesis merely on the grounds that the observed association appears to be slight. There are many occasions in medicine when this is in truth so. Relatively few persons harbouring the meningococcus fall sick of meningococcal meningitis. Relatively few persons occupationally exposed to rat's urine contract Weil's disease.

(2) Consistency: Next on my list of features to be specially considered I would place the consistency of the observed association. Has it been repeatedly observed by different persons, in different places, circumstances and times?

This requirement may be of special importance for those rare hazards singled out in the Section's terms of reference. With many alert minds at work in industry today many an environmental association may be thrown up. Some of them on the customary tests of statistical significance will appear to be unlikely to be due to chance. Nevertheless whether chance is the explanation or whether a true hazard has been revealed may sometimes be answered only by a repetition of the circumstances and the observations.

Returning to my more general example, the Advisory Committee to the Surgeon-General of the United States Public Health Service found the association of smoking with cancer of the lung in 29 retrospective and 7 prospective inquiries (US Department of Health, Education & Welfare 1964). The lesson here is that broadly the same answer has been reached in quite a wide variety of situations and techniques. In other words we can justifiably infer that the association is not due to some constant error or fallacy that permeates every inquiry. And we have indeed to be on our guard against that.

Take, for instance, an example given by Heady (1958). Patients admitted to hospital for operation for peptic ulcer are questioned about recent domestic anxieties or crises that may have precipitated the acute illness. As controls, patients admitted for operation for a simple hernia are similarly quizzed. But, as Heady points out, the two groups may not be *in pari materia*. If your wife ran off with the lodger last week you still have to take your perforated ulcer to hospital without delay. But with a hernia you might prefer to stay at home for a while – to mourn (or celebrate) the event. No number of exact repetitions would remove or necessarily reveal that fallacy.

We have, therefore, the somewhat paradoxical position that the different results of a different inquiry certainly cannot be held to refute the original evidence; yet the same results from precisely the same form of inquiry will not invariably greatly strengthen the original evidence. I would myself put a good deal of weight upon similar results reached in quite different ways, e.g. prospectively and retrospectively.

Once again looking at the obverse of the coin there will be occasions when repetition is absent or impossible and yet we should not hesitate to draw conclusions. The experience of the nickel refiners of South Wales is an outstanding example. I quote from the Alfred Watson Memorial Lecture that I gave in 1962 to the Institute of Actuaries:

'The population at risk, workers and pensioners, numbered about one thousand. During the ten years 1929 to 1938, sixteen of them had died from cancer of the lung, eleven of them had died from cancer of the nasal sinuses. At the age specific death rates of England and Wales at that time, one might have anticipated one death from cancer of the lung (to compare with the 16), and a fraction of a death from cancer of the nose (to compare with the 11). In all other bodily sites cancer had appeared on the death certificate 11 times and one would have expected it to do so 10-11 times. There had been 67 deaths from all other causes of mortality and over the ten years' period 72 would have been expected at the national death rates. Finally division of the population at risk in relation to their jobs showed that the excess of cancer of the lung and nose had fallen wholly upon the workers employed in the chemical processes.

'More recently my colleague, Dr Richard Doll, has brought this story a stage further. In the nine years 1948 to 1956 there had been, he found, 48 deaths from cancer of the lung and 13 deaths from cancer of the nose. He assessed the numbers expected at normal rates of mortality as, respectively 10 and 0·1.

'In 1923, long before any special hazard had been recognized, certain changes in the refinery took place. No case of cancer of the nose has been observed in any man who first entered the works after that year, and in these men there has been no excess of cancer of the lung. In other words, the excess in both sites is uniquely a feature in men who entered the refinery in, roughly, the first 23 years of the present century.

'No causal agent of these neoplasms has been identified. Until recently no animal experimentation had given any clue or any support to this wholly statistical evidence. Yet I wonder if any of us would hesitate to accept it as proof of a grave industrial hazard?' (Hill 1962).

In relation to my present discussion I know of no parallel investigation. We have (or certainly had) to make up our minds on a unique event; and there is no difficulty in doing so. (3) S c city One reason, needless to say, is the specificity of the association, the third characteristic which invariably we must consider. If, as here, the association is limited to specific workers and to particular sites and types of disease and there is no association between the work and other modes of dying, then clearly that is a strong argument in favour of causation.

We must not, however, over-emphasize the importance of the characteristic. Even in my present example there is a cause and effect relationship with two different sites of cancer – the lung and the nose. Milk as a carrier of infection and, in that sense, the cause of disease can produce such a disparate galaxy as scarlet fever, diphtheria, tuberculosis, undulant fever, sore throat, dysentery and typhoid fever. Before the discovery of the underlying factor, the bacterial origin of disease, harm would have been done by pushing too firmly the need for specificity as a necessary feature before convicting the dairy.

Coming to modern times the prospective investigations of smoking and cancer of the lung have been criticized for not showing specificity—in other words the death rate of smokers is higher than the death rate of non-smokers from many causes of death (though in fact the results of Doll & Hill, 1964, do not show that). But here surely one must return to my first characteristic, the strength of the association. If other causes of death are raised 10, 20 or even 50% in smokers whereas cancer of the lung is raised 900–1,000% we have specificity—a specificity in the magnitude of the association.

We must also keep in mind that diseases may have more than one cause. It has always been possible to acquire a cancer of the scrotum without sweeping chimneys or taking to mule-spinning in Lancashire. One-to-one relationships are not frequent. Indeed I believe that multicausation is generally more likely than single causation though possibly if we knew all the answers we might get back to a single factor.

In short, if specificity exists we may be able to draw conclusions without hesitation; if it is not apparent, we are not thereby necessarily left sitting irresolutely on the fence.

(4) T orality My fourth characteristic is the temporal relationship of the association — which is the cart and which the horse? This is a question which might be particularly relevant with diseases of slow development. Does a particular diet lead to disease or do the early stages of the disease lead to those peculiar dietetic habits? Does a

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particular occupation or occupational environment promote infection by the tubercle bacillus or are the men and women who select that kind of work more liable to contract tuberculosis whatever the environment – or, indeed, have they already contracted it? This temporal problem may not arise often but it certainly needs to be remembered, particularly with selective factors at work in industry.

(5) Biological gradient: Fifthly, if the association is one which can reveal a biological gradient, or dose-response curve, then we should look most carefully for such evidence. For instance, the fact that the death rate from cancer of the lung rises linearly with the number of cigarettes smoked daily, adds a very great deal to the simpler evidence that cigarette smokers have a higher death rate than non-smokers. That comparison would be weakened, though not necessarily destroyed, if it depended upon, say, a much heavier death rate in light smokers and a lower rate in heavier smokers. We should then need to envisage some much more complex relationship to satisfy the cause-and-effect hypothesis. The clear dose-response curve admits of a simple explanation and obviously puts the case in a clearer light.

The same would clearly be true of an alleged dust hazard in industry. The dustier the environment the greater the incidence of disease we would expect to see. Often the difficulty is to secure some satisfactory quantitative measure of the environment which will permit us to explore this dose-response. But we should invariably seek it.

(6) Plausibility: It will be helpful if the causation we suspect is biologically plausible. But this is a feature I am convinced we cannot demand. What is biologically plausible depends upon the biological knowledge of the day.

To quote again from my Alfred Watson Memorial Lecture (Hill 1962), there was

'... no biological knowledge to support (or to refute) Pott's observation in the 18th century of the excess of cancer in chimney sweeps. It was lack of biological knowledge in the 19th that led a prize essayist writing on the value and the fallacy of statistics to conclude, amongst other "absurd" associations, that "it could be no more ridiculous for the stranger who passed the night in the steerage of an emigrant ship to ascribe the typhus, which he there contracted, to the vermin with which bodies of the sick might be infected". And coming to nearer times, in the 20th century there was no biological knowledge to support the evidence against rubella.'

In short, the association we observe may be one new to science or medicine and we must not dismiss it too light-heartedly as just too odd. As Sherlock Holmes advised Dr Watson, 'when you have eliminated the impossible, whatever remains, however improbable, must be the truth.'

(7) Coherence: On the other hand the cause-andeffect interpretation of our data should not
seriously conflict with the generally known facts
of the natural history and biology of the disease
- in the expression of the Advisory Committee
to the Surgeon-General it should have coherence.

Thus in the discussion of lung cancer the Committee finds its association with cigarette smoking coherent with the temporal rise that has taken place in the two variables over the last generation and with the sex difference in mortality – features that might well apply in an occupational problem. The known urban/rural ratio of lung cancer mortality does not detract from coherence, nor the restriction of the effect to the lung.

Personally, I regard as greatly contributing to coherence the histopathological evidence from the bronchial epithelium of smokers and the isolation from cigarette smoke of factors carcinogenic for the skin of laboratory animals. Nevertheless, while such laboratory evidence can enormously strengthen the hypothesis and, indeed, may determine the actual causative agent. the lack of such evidence cannot nullify the epidemiological observations in man. Arsenic can undoubtedly cause cancer of the skin in man but it has never been possible to demonstrate such an effect on any other animal. In a wider field John Snow's epidemiological observations on the conveyance of cholera by the water from the Broad Street pump would have been put almost beyond dispute if Robert Koch had been then around to isolate the vibrio from the baby's nappies, the well itself and the gentleman in delicate health from Brighton. Yet the fact that Koch's work was to be awaited another thirty years did not really weaken the epidemiological case though it made it more difficult to establish against the criticisms of the day - both just and unjust.

(8) Experiment: Occasionally it is possible to appeal to experimental, or semi-experimental, evidence. For example, because of an observed association some preventive action is taken. Does it in fact prevent? The dust in the workshop is reduced, lubricating oils are changed, persons stop smoking cigarettes. Is the frequency of the associated events affected? Here the strongest

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support for the causation hypothesis may be revealed.

(9) Analogy: In some circumstances it would be fair to judge by analogy. With the effects of thalidomide and rubella before us we would surely be ready to accept slighter but similar evidence with another drug or another viral disease in pregnancy.

Here then are nine different viewpoints from all of which we should study association before we cry causation. What I do not believe – and this has been suggested – is that we can usefully lay down some hard-and-fast rules of evidence that must be obeyed before we accept cause and effect. None of my nine viewpoints can bring indisputable evidence for or against the cause-and-effect hypothesis and none can be required as a sine qua non. What they can do, with greater or less strength, is to help us to make up our minds on the fundamental question – is there any other way of explaining the set of facts before us, is there any other answer equally, or more, likely than cause and effect?

## Tests of Significance

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No formal tests of significance can answer those questions. Such tests can, and should, remind us of the effects that the play of chance can create, and they will instruct us in the likely magnitude of those effects. Beyond that they contribute nothing to the 'proof' of our hypothesis.

Nearly forty years ago, amongst the studies of occupational health that I made for the Industrial Health Research Board of the Medical Research Council was one that concerned the workers in the cotton-spinning mills of Lancashire (Hill 1930). The question that I had to answer, by the use of the National Health Insurance records of that time, was this: Do the workers in the cardroom of the spinning mill, who tend the machines that clean the raw cotton, have a sickness experience in any way different from that of other operatives in the same mills who are relatively unexposed to the dust and fibre that were features of the cardroom? The answer was an unqualified 'Yes'. From age 30 to age 60 the cardroom workers suffered over three times as much from respiratory causes of illness whereas from non-respiratory causes their experience was not different from that of the other workers. This pronounced difference with the respiratory causes was derived not from abnormally long periods of sickness but rather from an excessive number of repeated absences from work of the cardroom workers.

All this has rightly passed into the limbo of forgotten things. What interests me today is this: My results were set out for men and women separately and for half a dozen age groups in 36 tables. So there were plenty of sums. Yet I cannot find that anywhere I thought it necessary to use a test of significance. The evidence was so clear-cut, the differences between the groups were mainly so large, the contrast between respiratory and non-respiratory causes of illness so specific, that no formal tests could really contribute anything of value to the argument. So why use them?

Would we think or act that way today? I rather doubt it. Between the two world wars there was a strong case for emphasizing to the clinician and other research workers the importance of not overlooking the effects of the play of chance upon their data. Perhaps too often generalities were based upon two men and a laboratory dog while the treatment of choice was deduced from a difference between two bedfuls of patients and might easily have no true meaning. It was therefore a useful corrective for statisticians to stress, and to teach the need for, tests of significance merely to serve as guides to caution before drawing a conclusion, before inflating the particular to the general.

I wonder whether the pendulum has not swung too far - not only with the attentive pupils but even with the statisticians themselves. To decline to draw conclusions without standard errors can surely be just as silly? Fortunately I believe we have not vet gone so far as our friends in the USA where, I am told, some editors of journals will return an article because tests of significance have not been applied. Yet there are innumerable situations in which they are totally unnecessary because the difference is grotesquely obvious, because it is negligible, or because, whether it be formally significant or not, it is too small to be of any practical importance. What is worse the glitter of the t table diverts attention from the inadequacies of the fare. Only a tithe, and an unknown tithe, of the factory personnel volunteer for some procedure or interview, 20% of patients treated in some particular way are lost to sight, 30% of a randomly-drawn sample are never contacted. The sample may, indeed, be akin to that of the man who, according to Swift, 'had a mind to sell his house and carried a piece of brick in his pocket, which he showed as a pattern to encourage purchasers'. The writer, the editor and the reader are unmoved. The magic formulæ are there.

Of course I exaggerate. Yet too often I suspect we waste a deal of time, we grasp the shadow and

